



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER – Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series “7¹³/₁₆” Deep 1600 System 1 Dry Glazed” Aluminum Curtain Wall System - SMI

APPROVAL DOCUMENT: Drawing No. 1790, titled Series “7¹³/₁₆” Deep 1600 System 1 Curtain Wall (S.M.I.)”, sheets 1 through 18 of 18, dated 03/09/12, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0622.06 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P. E.



MP
8/15/14

NOA No. 14-0430.22
Expiration Date: June 22, 2016
Approval Date: August 21, 2014
Page 1

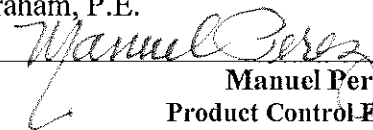
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 12-0622.06)
2. Drawing No. 1790, titled Series "7¹³/₁₆" Deep 1600 System 1 Curtain Wall (S.M.I.), sheets 1 through 18 of 18, dated 03/09/12, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 12-0622.06)

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-B8873.01-550-18**, dated 05/22/12, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA No. 12-0622.06)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0202-05**, dated 02/07/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-0406-01**, dated 06/29/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-1106-00**, dated 06/29/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)



Manuel Perez, P. E.
Product Control Examiner
NOA No. 14-0430.22

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 02/09/12, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 12-0622.06)
2. Glazing complies with ASTM E1300-98/ 04/ 09

D. QUALITY ASSURANCE

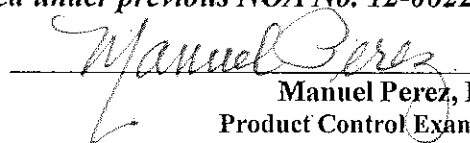
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 06/19/14, expiring on 12/11/18.
3. Trelleborg Part No. **BRM-270400** EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1509 PSI; D395B 22 HRS @ 70°F 16%; ASTM D 2240 Type A 70; ASTM D 573 70 HRS @ 100°C +2.0%, -9.2% and + 6 pts.; ASTM D 624-Die-C 101.7 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -42.8°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit. *(Submitted under previous NOA No. 12-0622.06)*
4. Test Reports No.'s **ARDL-PN-74740-A** and **ARDL-PN-7474-BB**, issued and prepared by Akron Rubber Development Laboratory, Inc., dated 08/21/02, for TREMCO EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1871 PSI, D395B 22 HRS 100°C 14.4%; ASTM D 573 70 HRS @ 100°C -5.0%, -2.2% and + 4 pts.; ASTM D 624-Die-C 162.2 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -58°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit, dated 08/28/07 and 09/04/07, both signed by Jim Drummond. *(Submitted under previous NOA No. 08-1103.09)*

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC 5th Edition (2014)**, issued by W.W. Schaefer Engineering & Consulting, P.A., dated 04/14/14, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of conformance and complying with **FBC-2010**, issued by W.W. Schaefer Engineering & Consulting, P.A., dated 02/09/12, signed and sealed by Warren W. Schaefer, P.E. *(Submitted under previous NOA No. 12-0622.06)*


Manuel Perez, P. E.
Product Control Examiner

NOA No. 14-0430.22

Expiration Date: June 22, 2016

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

3. Statement letter of no financial interest, issued by W.W. Schaefer Engineering & Consulting, P.A., dated 02/09/12, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 12-0622.06)
4. Notification of successor engineer per Section 61G15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to the curtain wall system 1600 System 1 & 2 of Kawneer Company, Inc., dated 02/29/12, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 12-0622.06)
5. Laboratory compliance letter for Test Report No. ATI-B8873.01-550-18, issued by Architectural Testing, Inc., dated 05/22/12, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA No. 12-0622.06)
6. Laboratory compliance letter for Test Report No. HTL-0049-0202-05, issued by Hurricane Test Laboratory, LLC, dated 02/21/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)
7. Laboratory addendum letters for Test Reports No. HTL-0049-0406-01 and HTL-0049-1106-00, both issued by Hurricane Test Laboratory, Inc., dated 09/15/03, both signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)
8. Laboratory compliance letters for Test Reports No.'s HTL-0049-0406-01 and HTL-0049-1106-00, both issued by Hurricane Test Laboratory, Inc., dated 06/29/01, both signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 06-0320.19)

G. OTHERS

1. Notice of Acceptance No. 12-0622.06, issued to Kawneer Company, Inc., for their Series "1600 System 1 No Steel Reinforcement" Aluminum Curtain Wall – S.M.I., approved on 08/30/12 and expiring on 06/22/16.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
Reference only 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. ATI-B3877.01-550-18, dated 02/20/12, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA No. 12-0622.06)


Manuel Perez, P. E.
Product Control Examiner

NOA No. 14-0430.22

Expiration Date: June 22, 2016

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GENERAL NOTES:

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT CURTAIN WALL SYSTEMS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THIS CURTAIN WALL SYSTEM MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $KD = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $CD = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

DRAWING USE INSTRUCTIONS:

1. DETERMINE IF THE WALL SYSTEM IS TO BE A MULTI-SPAN, REINFORCED SINGLE SPAN, OR NON-REINFORCED SINGLE SPAN CONDITION. IF MULTI-SPAN, ALL CONDITIONS SHOWN ON SHEETS 2 & 3 SHALL APPLY. IF A REINFORCED SINGLE SPAN, ALL CONDITIONS SHOWN ON SHEET 4 SHALL APPLY. IF A NON-REINFORCED SINGLE SPAN, ALL CONDITIONS SHOWN ON SHEET 5 SHALL APPLY.
2. CONDITIONS MAY NOT BE MIXED BETWEEN WALL SYSTEM TYPES.
3. ALLOWABLE GLASS PRESSURE SHALL BE CONSIDERED WITH ALL WALL CONDITIONS AND SHALL CONTROL IF LESS THAN THOSE ALLOWABLE PRESSURES STATED FOR THE APPLICABLE FRAMING SYSTEM.

FREE SPANNING JAMB PERIMETER SEALANT NOTE

(APPLICABLE TO ELEVATION ON SHEET 5):

WHEN THERE IS NO CONTINUOUS JAMB SUPPORT, THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN JAMB FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

THESE I.G. GLASS OPTIONS ARE NOT APPLICABLE FOR USE WITH A VERTICAL CORNER FRAME MEMBER. I.G. GLASS MAY ONLY BE APPLIED BETWEEN INTERMEDIATE & JAMB FRAME MEMBERS (KAWNEER DOES NOT SUPPLY A CORNER PRESSURE PLATE FOR USE WITH I.G. GLASS)

CORNER CONSTRUCTION:

STANDARD FRAMING AT TOP & BOTTOM HORIZONTAL MEMBERS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #14). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 2 NO. 12 X 1 7/8" FHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 7/8" PHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

STANDARD FRAMING AT INTERMEDIATE HORIZONTAL MEMBERS: HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBERS VIA A SHEAR BLOCK (ITEM #16). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 2 NO. 12 X 1 7/8" FHTF SCREWS. THE INTERMEDIATE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 7/8" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

TYPICAL 90 DEGREE CORNER FRAMING: VERTICAL CORNER MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE MITER CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #15). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 3 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 1/2" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

90 DEGREE CORNER FRAMING AT SPLICE JOINT LOCATIONS: VERTICAL CORNER MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE MITER CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #18). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 2 NO. 12 X 7/16" PHTF SCREWS (2 PER SHEAR BLOCK). THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 1/2" FHTF SCREWS (2 PER SHEAR BLOCK). CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

STANDARD FRAMING AT SPLICE JOINT LOCATIONS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #17). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 2 NO. 12 X 1 7/8" PHTF SCREWS (2 PER SHEAR BLOCK). THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 1/2" FHTF SCREWS (2 PER SHEAR BLOCK). CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

GLASS D.L.O. SIZE VS. PRESSURE

GLASS OPTIONS	MAXIMUM D.L.O. WIDTH	MAXIMUM D.L.O. HEIGHT	ALLOWABLE DESIGN PRESSURE
1, 2, 3 & 4	58 1/2"	82 1/8"	+/-90 PSF
	51 3/8"	93 1/2"	+/-90 PSF
	50 5/8"	94 3/4"	+/-90 PSF
	73 3/4"	54 5/8"	+/-90 PSF
1 & 2	58 1/2"	93 1/2"	+/-65 PSF
	57 3/4"	94 3/4"	+/-65 PSF
5 & 6	58 1/2"	93 1/2"	+/-90 PSF
	57 3/4"	94 3/4"	+/-90 PSF
	73 3/4"	54 5/8"	+/-90 PSF

SEE GLAZING DETAILS FOR GLASS OPTIONS
HEIGHT & WIDTH MAY NOT BE INTERCHANGED!

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY:	W.W.S.	CHECKED BY:	W.W.S.
DATE:	03/09/12		
NO.			
REVISION			
DESCRIPTION			
DATE			
BY			

MAXIMUM ALLOWABLE FRAMING MEMBER DEFLECTION

L/180 (SPAN OF MEMBER DIVIDED BY 180)

NOTE: THIS IS THE MAXIMUM ALLOWABLE DEFLECTION AS RESTRICTED BY THE BUILDING CODE. IF JOB CONDITIONS REQUIRE LESS DEFLECTION, THE JOB CONDITIONS SHALL CONTROL.

ANCHOR LEGEND

ANCHOR SYMBOL	ANCHOR DESCRIPTION
⊞	STANDARD WIND LOAD ANCHOR
⊕	CORNER WIND LOAD ANCHOR
△	STANDARD DEAD LOAD ANCHOR
⊞	CORNER DEAD LOAD ANCHOR
⊞	STANDARD T-ANCHOR
⊕	CORNER T-ANCHOR
⊞	DOOR JAMB U-ANCHOR
△	F-ANCHOR (FRAME MEMBER ENDS)

SEE SHEETS 6-10 FOR DETAILS OF ANCHORS

VERTICAL MEMBER REINFORCEMENT LEGEND

- [R1] = REINFORCEMENT PART NUMBER 36
[R2] = REINFORCEMENT PART NUMBER 36 & 37
[R3] = REINFORCEMENT PART NUMBERS 36, 37 & 38
[R4] = REINFORCEMENT PART NUMBERS 36, 37, 38 & 39
[R5] = REINFORCEMENT PART NUMBER 40

SEE PARTS DRAWINGS & PARTS LIST FOR APPLICABLE REINFORCEMENT MEMBERS & THEIR DETAIL.

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No. 14-0430.22

Expiration Date 06/22/2016

By *Manuel Torres*

Miami Dade Product Control

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No. 12-0622.06

Expiration Date 06/22/2016

By *Manuel Torres*

Miami Dade Product Control

NOTE: INFORMATION ON THIS SHEET APPLIES TO ALL ELEVATIONS.

DRAWING TITLE
7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, 33418
PALM BEACH GARDENS, FL
PHONE: 561-744-3424

CERTIFICATION
JUN 19 2012
W. W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1790
SHEET NO. 1 OF 18

NOTES APPLICABLE TO MULTI-SPAN CURTAIN WALLS

1. WITH EACH APPLICABLE JOB, SHOP DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A LICENSED ENGINEER EXPERIENCED WITH CURTAIN WALL DESIGN.
2. THE RESPONSIBLE ENGINEER SHALL DESIGN THE WALL SYSTEM SEPARATELY FOR EACH JOB & CONFIRM THAT ALL CONDITIONS STATED HERE-IN HAVE BEEN CONSIDERED AND ADHERED TO IN THAT DESIGN.
3. IN HIS/HER DESIGN, THE RESPONSIBLE ENGINEER SHALL VERIFY THE INTEGRITY OF ALL CONNECTIONS AND FRAMING MEMBERS & SHALL TAKE FULL RESPONSIBILITY FOR THE INTEGRITY OF THE SYSTEM DESIGN AS A WHOLE WHILE NOT ALLOWING THE CONDITIONS STATED HERE-IN TO BE EXCEEDED. ALLOWABLE SUPPORT REACTIONS AND VERTICAL FRAMING MEMBER BENDING MOMENTS SHALL NOT EXCEED THOSE STATED IN THE TABLES ON THIS SHEET, REGARDLESS OF JOB DESIGN.
4. THE CURTAIN WALL DESIGN ENGINEER SHALL CONSIDER ALL APPLICABLE REACTION LOADS IN HIS/HER DESIGN WHILE NOT ALLOWING THE REACTIONS RESULTING FROM WIND LOADS TO EXCEED THOSE SPECIFIED IN THE ANCHOR REACTION LOAD TABLE.
5. THE WORSE CASE OF THE CONDITIONS SPECIFIED IN THIS PRODUCT APPROVAL DRAWING AND THOSE DETERMINED BY THE INDIVIDUAL JOB ENGINEER'S ANALYSIS & DESIGN SHALL CONTROL AS APPLICABLE FOR THE ACTUAL JOB.
6. REGARDLESS OF JOB DETERMINED MEMBER STRESS & DEFLECTION CONDITIONS, THE FOLLOWING SHALL APPLY:
- A. REINFORCEMENT TYPE R1 MUST BE PLACED BETWEEN SUPPORTS IN ALL VERTICAL INTERMEDIATE FRAME MEMBERS THAT SPAN OVER 114" BETWEEN THEIR SUPPORTS (NOT REQUIRED IF THE UNSUPPORTED SPAN IS 114" OR LESS & THE JOB DESIGN ALLOWS FOR NO REINFORCEMENT).
- B. IF BETWEEN 2 DOOR UNITS, THE VERTICAL FRAMING MEMBER SHALL BE REINFORCED. REINFORCEMENT SHALL BEGIN MAXIMUM 12" UP FROM THE SILL & EXTEND MINIMUM 12" PAST THE DOOR HEAD FRAME.
- C. ALL VERTICAL INTERMEDIATE FRAMING MEMBERS SHALL BE REINFORCED ACROSS ALL INTERMEDIATE DEAD/WIND LOAD ANCHOR LOCATIONS WITH ONE OF THE REINFORCEMENT TYPES R1, R2 OR R3 AS SPECIFIED IN THE ELEVATION. THIS REINFORCEMENT SHALL EXTEND A MINIMUM OF 18" ABOVE & BELOW THE SUPPORT.
- D. REINFORCEMENT TYPE R4 IS REQUIRED IN ALL VERTICAL CORNER FRAME MEMBERS. IT SHALL BE CONTINUOUS BETWEEN ALL MEMBER SPLICE JOINTS AND EXTEND TO WITHIN 24" OF WALL BASE, 12" OF A SPLICE & 18" OF THE WALL TOP.
7. REINFORCEMENT IS NOT REQUIRED TO BE CONTINUOUS TOP TO BOTTOM WITHIN THE VERTICAL FRAMING MEMBERS. REINFORCEMENT MAY BE NON-CONTINUOUS, AS DETERMINED FOR EACH JOB, PROVIDING IT MEETS THE MINIMUM GUIDELINES OF THIS DRAWING.
8. THIS ELEVATION SHOWS THE 1600 CURTAIN WALL SYSTEM 1 IN A MULTI-STORY APPLICATION. THE NUMBER OF FLOORS WITH WHICH THIS SYSTEM MAY BE USED RANGE FROM TWO(2) TO UNLIMITED WITH THE ONLY RESTRICTIONS BEING THE MAXIMUM SPAN BETWEEN FLOORS/SUPPORTS AND THE MAXIMUM D.L.O. SIZES SPECIFIED.
9. SPLICING OF VERTICAL FRAME MEMBERS MAY OCCUR BETWEEN SUPPORTS AS REQUIRED. LOCATION OF THOSE SPLICES SHALL BE WHERE A BENDING MOMENT OF NEAR ZERO(0) EXISTS IN THE MEMBER.
10. THE MULTI-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET AND THE JOB DESIGN ALLOWS FOR THE MULTIPLE DOOR CONDITION.
11. ALTHOUGH A DOOR SECTION IS SHOWN, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR.
12. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND/DEAD LOAD ANCHORS SHOWN PROVIDING THE SPAN BETWEEN THE T-ANCHORS AND THE BELOW WIND/DEAD LOAD ANCHORS DOES NOT EXCEED 167 1/2" (SAME SPAN AS AT THE BASE) & THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE. T-ANCHORS MAY APPLY AT THE TOP END OF A DOOR JAMB FRAME MEMBER.

(1) MAXIMUM ALLOWABLE BENDING MOMENTS IN VERTICAL FRAMING MEMBERS (FOR USE WITH MULTI-SPAN CURTAIN WALL)

(2) VERTICAL MEMBER	(3) MAXIMUM ALLOWABLE BENDING MOMENT (POS & NEG)
INTERMEDIATE MEMBER WITH NO REINFORCEMENT	61934 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R1"	84610 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R2"	115852 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R3"	133705 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R4"	150418 IN-LB
CORNER MEMBER WITH REINFORCEMENT "R5"	(4) 141377 IN-LB

NOTES:

- (1) THE VALUES IN THIS TABLE ARE APPLICABLE TO THE JOB REQUIRED DESIGN OF THE MULTI-SPAN WALL SYSTEM & NEED NOT BE CONSIDERED WITH SINGLE SPAN WALLS. ALL SINGLE SPAN MEMBER & REINFORCEMENT CONDITIONS SHALL BE AS SPECIFICALLY SPECIFIED IN THE SINGLE SPAN ELEVATIONS.
- (2) FOR DESCRIPTIONS OF REINFORCEMENTS, SEE THE "VERTICAL MEMBER REINFORCEMENT LEGEND".
- (3) ALL VALUES ARE BASED ON THE WORSE CASE OF TESTED MOMENT AND ALLOWABLE MOMENT.
- (4) MOMENT VALUE SHOWN FOR THE CORNER MULLION IS DUE TO THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR SINGLE SIDE LOAD, THE ALLOWABLE MOMENT SHALL NOT EXCEED 70688 IN-LB. IN THAT DIRECTION (LOAD VECTOR 45 DEGREES TO MULLION ANGLE).

ANCHOR REACTION LOAD CAPACITY (MULTI-SPAN CURTAIN WALL)

ANCHOR SYMBOL	ANCHOR DESCRIPTION	(1) MAXIMUM ALLOWABLE REACTION LOAD
⊕	STANDARD WIND LOAD ANCHOR	8980 LBS
⊕	CORNER WIND LOAD ANCHOR	(2) 5967 LBS
△	STANDARD DEAD LOAD ANCHOR	8980 LBS
△	CORNER DEAD LOAD ANCHOR	(2) 5967 LBS
⊞	STANDARD T-ANCHOR	3152 LBS
⊞	CORNER T-ANCHOR	(2) 1789 LBS
⬢	DOOR JAMB U-ANCHOR	2694 LBS
△	F-ANCHOR (FRAME MEMBER ENDS)	1131 LBS

- (1) MAXIMUM ALLOWABLE REACTION LOADS SHOWN CONSIDER REACTIONS FROM WIND LOADS ONLY & APPLY TO BOTH POSITIVE & NEGATIVE WIND DIRECTIONS. IN ADDITION TO WIND LOADS, THE CURTAIN WALL DESIGN ENGINEER OF RECORD FOR EACH PROJECT SHALL ALSO CONSIDER OTHER APPLICABLE LOADS SUCH AS, BUT POSSIBLY NOT LIMITED TO, DEAD LOADS FROM THE CURTAIN WALL WEIGHT.
- (2) REACTION LOAD SHOWN FOR THE CORNER ANCHORS IS THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR EITHER SIDE LOAD, THE ALLOWABLE REACTION LOAD SHALL NOT EXCEED 4220 LB. FROM EITHER SIDE FOR THE WIND & DEAD LOAD ANCHORS NOR 1265 LBS FROM EITHER SIDE FOR THE T-ANCHOR.

ANCHOR REQUIREMENTS TABLE (MULTI-SPAN CURTAIN WALL)

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
F-PERIMETER ANCHOR SCREWS			
MIN. 1/8" THK A36 STEEL	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	2 1/2"	2 1/2"
T & U-ANCHOR SCREWS/BOLTS (VERTICAL MEMBER ENDS)			
MIN. 1/4" THK A36 STEEL	3/8"-16 430 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	3/4"
	3/8" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	3/4"
	1/2"-13 300 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	1"
	1/2" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	1"
(2) MIN. 3000 PSI CONCRETE	(1) 1/2" CONCRETE SCREW ANCHOR	4"	SEE DETAILS

- (1) 3/8" & 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).
- (2) MINIMUM CONCRETE SLAB THICKNESS FOR PLACEMENT OF "T" & "U" ANCHORS IS 7".

MAXIMUM ALLOWABLE DESIGN PRESSURE (MULTI-SPAN CURTAIN WALL)

+90/-90 PSF

1. THE ABOVE STATED PRESSURES ARE THE MAXIMUM ALLOWED ON ANY JOB REGARDLESS OF WHAT THE JOB SPECIFIC DESIGN RESULTS MAY SHOW. INCREASE OF ALLOWABLE DESIGN PRESSURE ON ANY JOB IS CONSIDERED OUTSIDE THE SCOPE OF THIS APPROVAL. SEE "MULTI-SPAN WALL NOTES" ON THIS SHEET FOR ACTUAL JOB DESIGN CONDITIONS.
2. SEE ALLOWABLE GLASS DESIGN PRESSURE TABLE ON SHEET 1 FOR GLASS PRESSURE RESTRICTIONS. THE LESSER OF THE ALLOWABLE PRESSURE ON THE FRAMING SYSTEM AND THAT OF THE GLASS SHALL CONTROL FOR THE OVERALL SYSTEM.

NOTE: INFORMATION ON THIS SHEET APPLIES TO ELEVATIONS ON SHEET 3 ONLY.

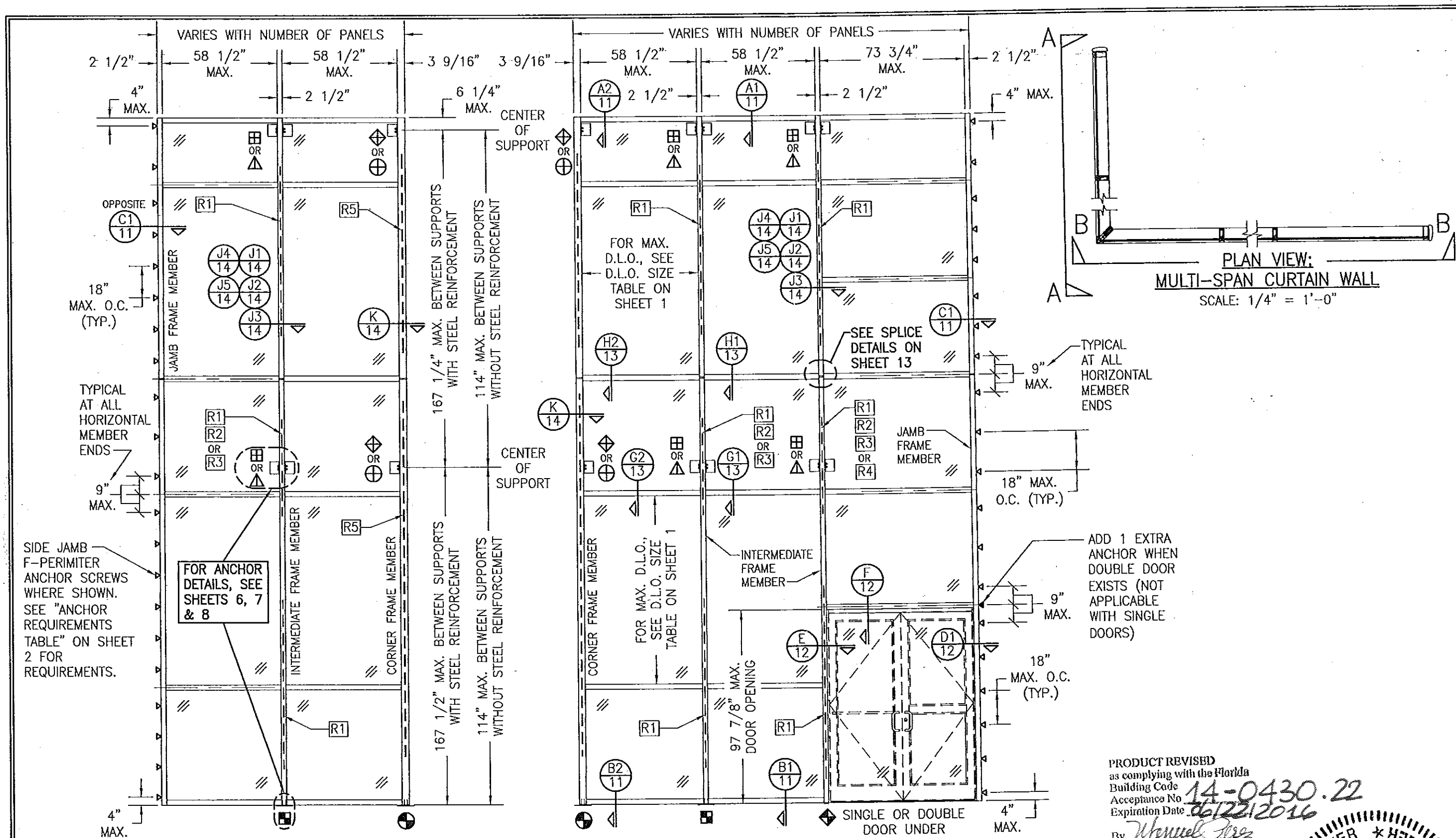
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Acceptance No. 14-0430.22
Expiration Date 06/22/2016

By *Warren W. Schaefer*
Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016

By *Warren W. Schaefer*
Miami Dade Product Control

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-48	DATE: 03/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1790	REV.
SHEET NO. 2	OF 18



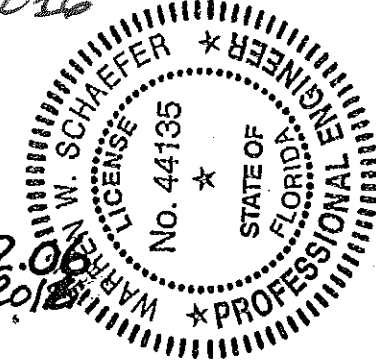
EXTERIOR ELEVATION VIEW "A-A":
MULTI-SPAN CURTAIN WALL
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION VIEW "B-B":
MULTI-SPAN CURTAIN WALL
SCALE: 1/4" = 1'-0"

PLAN VIEW:
MULTI-SPAN CURTAIN WALL
SCALE: 1/4" = 1'-0"

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By: *Manuel Torres*
Miami Made Product Control

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as complying with the Florida
Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016
By: *Manuel Torres*
Miami Made Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 03/09/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION		JUN 19 2012	
DRAWING NO. 1790		REV.	
SHEET NO. 3		OF 18	

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)	
		AT STANDARD & CORNER MULLION	AT DOOR JAMB MULLION
147	76 1/4	81.0	69.3
	72	85.8	73.3
	68 5/8	90.0	77.0
	62	90.0	85.2
	58	90.0	82.6
144	76 1/4	82.7	70.7
	72	87.6	74.9
	68 5/8	90.0	78.6
	62	90.0	86.9
	59	90.0	90.0
132	76 1/4	90.0	77.1
	72	90.0	81.7
	68 5/8	90.0	85.7
	65	90.0	90.0
120	76 1/4	90.0	84.8
	72	90.0	89.8
112	76 1/4	90.0	90.0

PRESSURE TABLE NOTES:

1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA.
ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.
4. LESSER PRESSURE AT DOOR MULLION IS DUE TO THE DOOR JAMB U-ANCHOR HAVING A LESSER CAPACITY THAN THAT OF THE T-ANCHOR.

1. REINFORCEMENT SHALL RUN CONTINUOUS IN INTERMEDIATE AND CORNER VERTICAL MEMBERS & EXTEND TO WITHIN 13 1/2" OF THE ENDS.
2. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
3. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
4. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
5. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.

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Expiration Date 06/22/2016

By Allen [Signature]
Mesa High Product Control

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
F-PERIMETER ANCHOR SCREWS			
MIN. 16 GA. 50 KSI METAL STUD	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" DIA. GR. 5 COARSE THREAD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	2 1/2"	2 1/2"
T & U-ANCHOR SCREWS/BOLTS (VERTICAL MEMBER ENDS)			
22 MIN. 1/4" THK A36 STEEL	3/8"-16 430 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	3/4"
	3/8" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	3/4"
	1/2"-13 300 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	1"
	1/2" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	1"
(2) MIN. 3000 PSI CONCRETE	(1) 1/2" CONCRETE SCREW ANCHOR	4"	SEE DETAILS
(1) 3/8" & 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).			
(2) MINIMUM CONCRETE SLAB THICKNESS FOR PLACEMENT OF "T" & "U" ANCHORS IS 7".			

[illegible]

NOTE: INFORMATION ON THIS SHEET APPLIES TO ELEVATIONS ON THIS SHEET ONLY.

EXTERIOR ELEVATION VIEW "C-C":
SINGLE-SPAN REINFORCED CURTAIN WALL
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION VIEW "D-D":
SINGLE-SPAN REINFORCED CURTAIN WALL
SCALE: $1/4" = 1'-0"$

A circular professional seal for Warren W. Schaeffer. The outer ring contains the text "WARREN W. SCHAEFFER" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "LICENSE" on the left, "No. 44135" in the center, and "STATE OF FLORIDA" on the right, also separated by two stars.

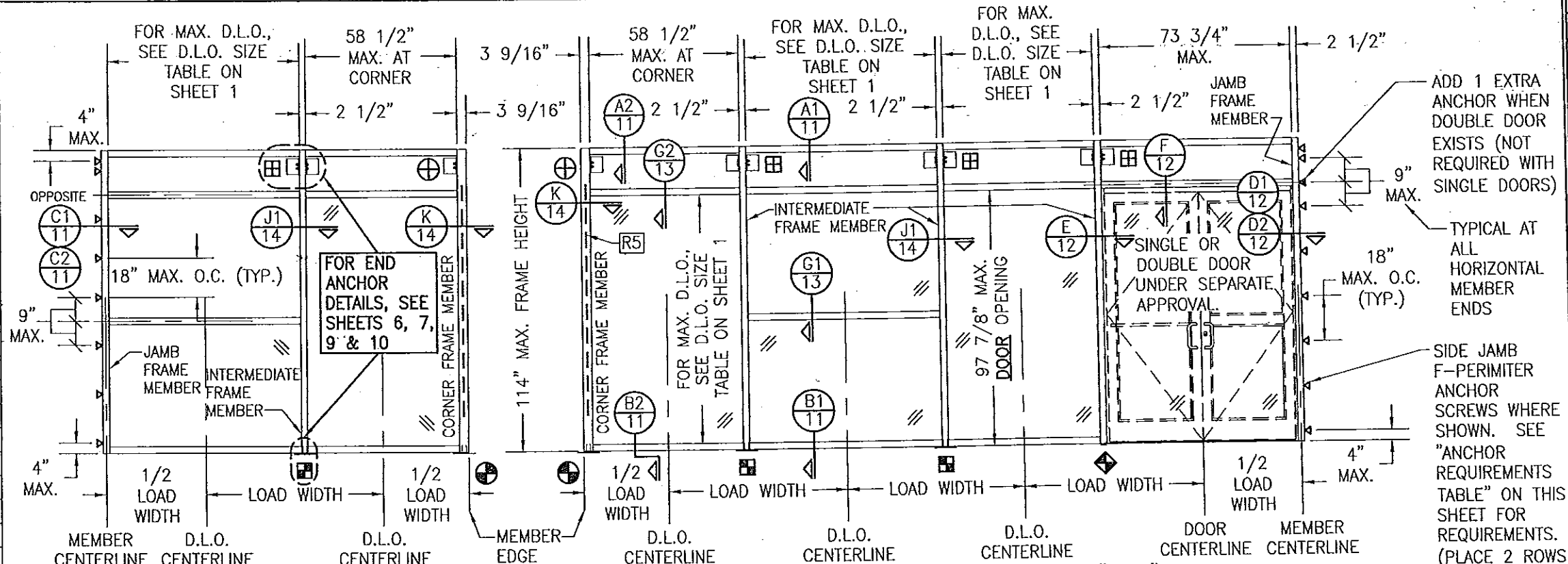
ALLOWABLE DESIGN PRESSURE (SINGLE SPAN NON-REINFORCED CURTAIN WALL)

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)
114	76 1/4	72.0
	72	76.2
	66	83.2
	61	90.0
108	76 1/4	76.0
	72	80.5
	66	87.8
	64	90.0
102	76 1/4	80.5
	72	85.2
	68	90.0
96	76 1/4	85.5
	72	90.0
90	76 1/4	90.0

NOTES:
1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA. ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.

ANCHOR REQUIREMENTS TABLE (SINGLE SPAN NON-REINFORCED CURTAIN WALL)

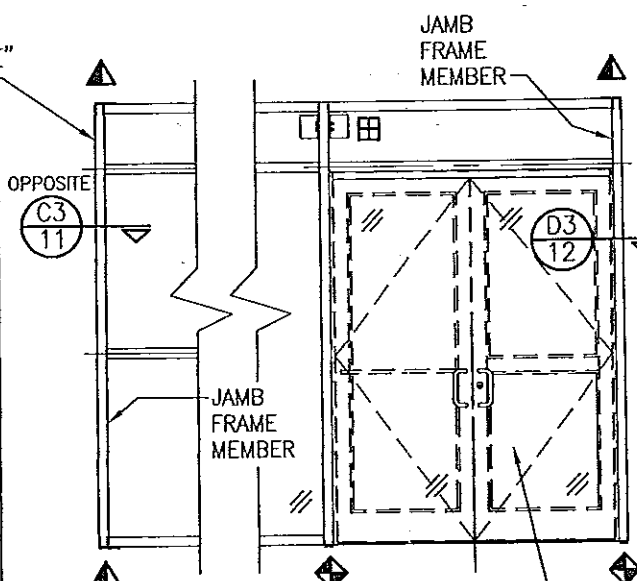
OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
SIDE JAMB F-ANCHOR SCREWS			
MIN. 16 GA. 50 KSI METAL STUD	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" DIA. GR. 5 COARSE THREAD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	2 1/2"	2 1/2"
T, F & U-ANCHOR SCREWS/BOLTS (VERTICAL MEMBER ENDS)			
MIN. 1/4" THK A36 STEEL	3/8"-16 430 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	3/4"
	3/8" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	3/4"
MIN. 1/8" THK A36 STEEL	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(2) MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	3 1/4"	SEE DETAILS
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	5/16" DIA. GR. 5 COARSE THREAD SCREW	1 1/4"	3/4"
MIN. 16 GA. 50 KSI METAL STUD	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(1) 3/8" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).			
(2) MINIMUM CONCRETE SLAB THICKNESS FOR PLACEMENT OF "T", "F" & "U" ANCHORS IS 5 1/2".			



EXTERIOR ELEVATION VIEW "E-E":
SINGLE-SPAN NON-REINFORCED CURTAIN WALL
WITH CONTINUOUS SIDE JAMB FRAME F-ANCHOR

SCALE: 1/4" = 1'-0"

SEE "FREE SPAN JAMB
PERIMETER SEALANT NOTE"
ON SHEET 1.



ALTERNATE SIDE JAMB FRAME CONDITION
(SUPPORTED BY END F-ANCHORS VS.
CONTINUOUS SIDE F-ANCHORS)

SCALE: 1/4" = 1'-0"

ALL CONDITIONS SHOWN IN THE MAIN ELEVATIONS
OF THIS SHEET SHALL EQUALLY APPLY TO THIS
SIDE JAMB CONDITION.

EXTERIOR ELEVATION VIEW "F-F":
SINGLE-SPAN NON-REINFORCED CURTAIN WALL
WITH CONTINUOUS SIDE JAMB FRAME F-ANCHOR

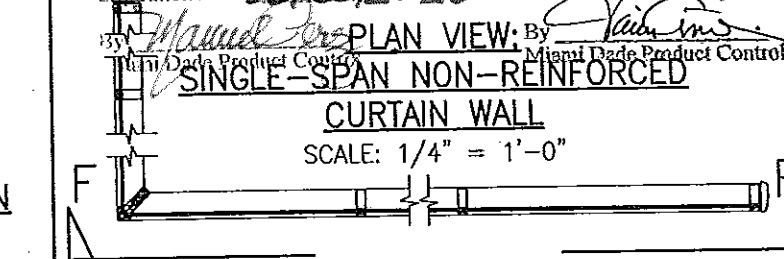
SCALE: 1/4" = 1'-0"

NOTES APPLICABLE TO SINGLE-SPAN NON-REINFORCED CURTAIN WALLS

1. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
2. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
3. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
4. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.
5. REGARDLESS OF FRAME HEIGHT, CORNER FRAME MEMBER MUST BE REINFORCED. REINFORCEMENT SHALL RUN CONTINUOUS & EXTEND TO WITHIN 13 1/2" OF THE FRAME MEMBER ENDS.
6. SIDE JAMB FRAME MEMBERS MAY BE SUPPORTED EITHER BY A CONTINUOUS SIDE JAMB F-PERIMETER ANCHOR OR BY END ANCHORS AS SHOWN.
7. IF BETWEEN 2 DOOR UNITS, THE VERTICAL FRAMING MEMBER SHALL BE REINFORCED. REINFORCEMENT SHALL BEGIN MAXIMUM 12" UP FROM THE SILL & EXTEND MINIMUM 12" PAST THE DOOR HEAD FRAME.

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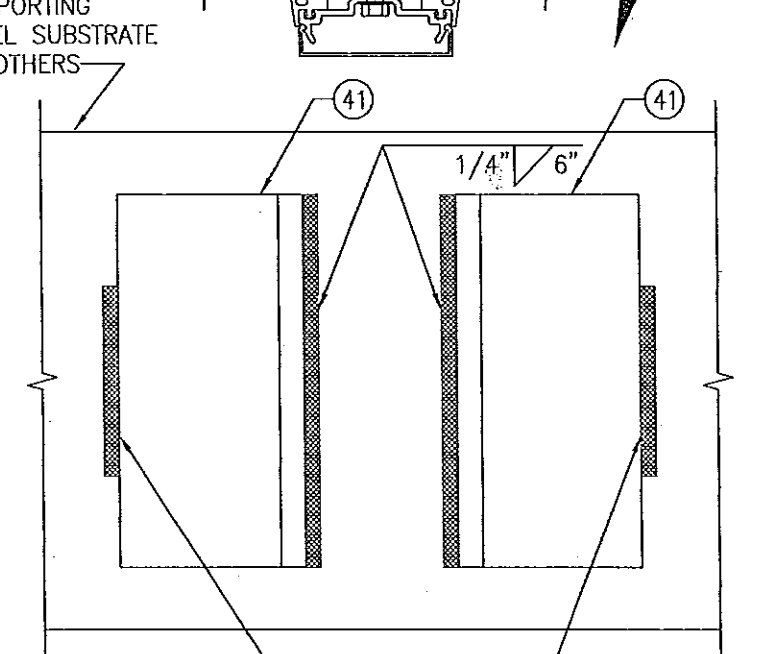
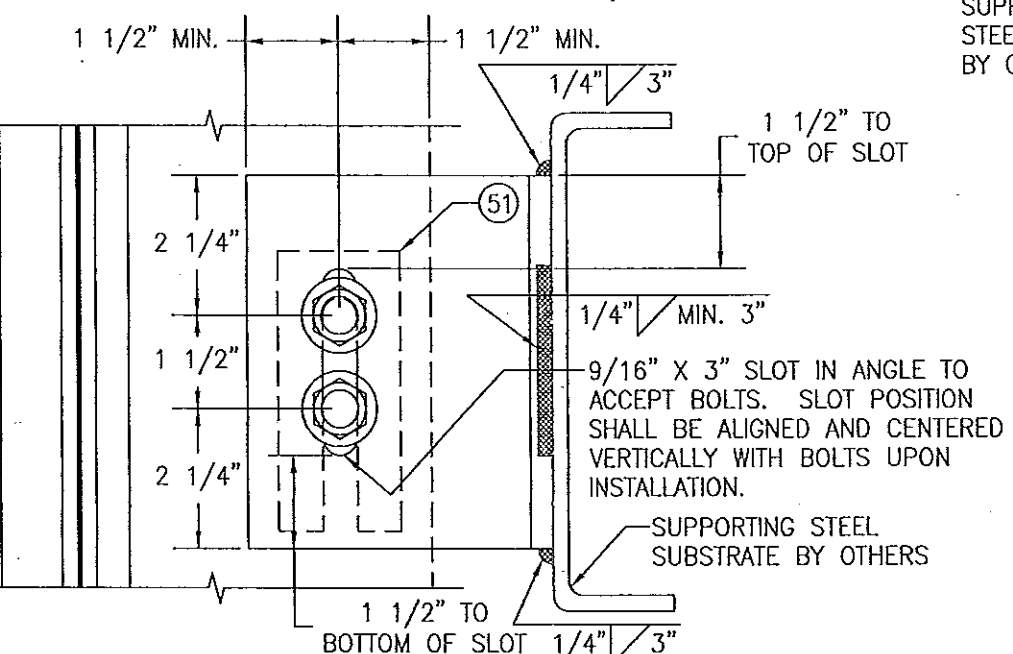
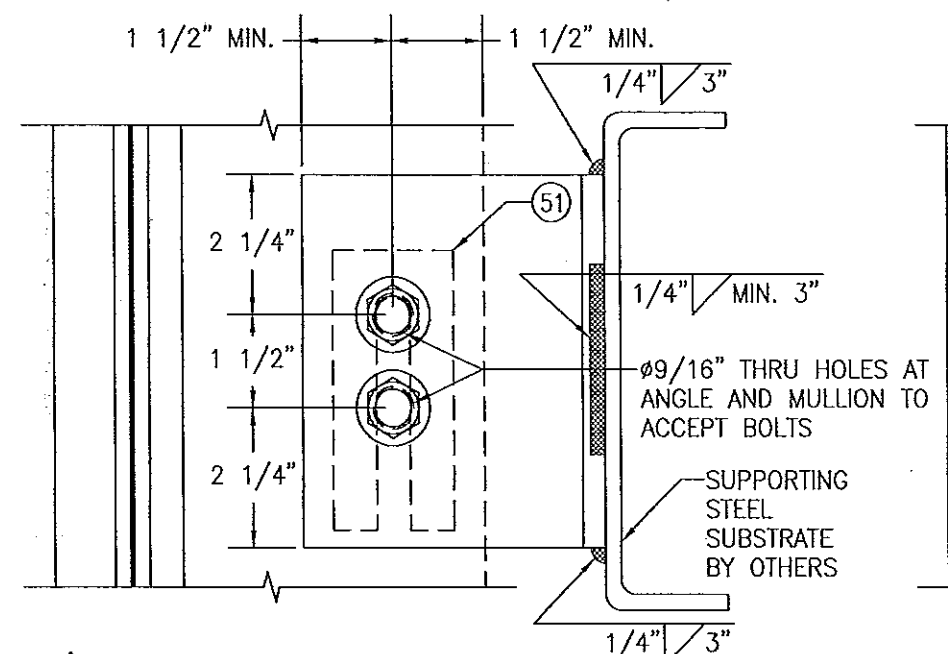
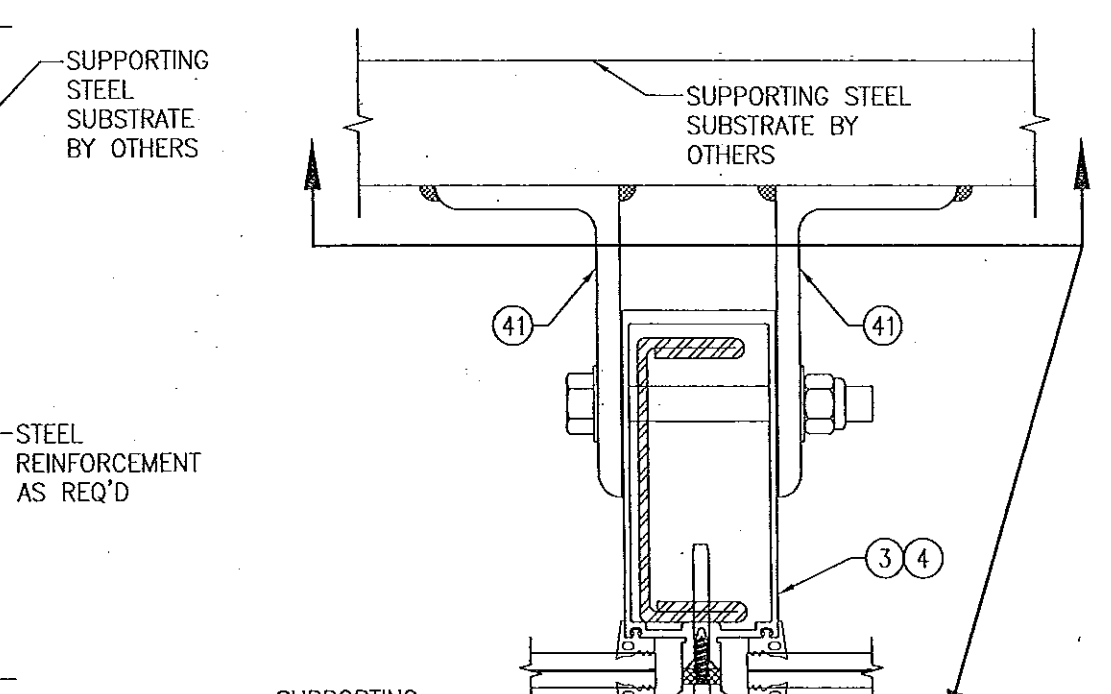
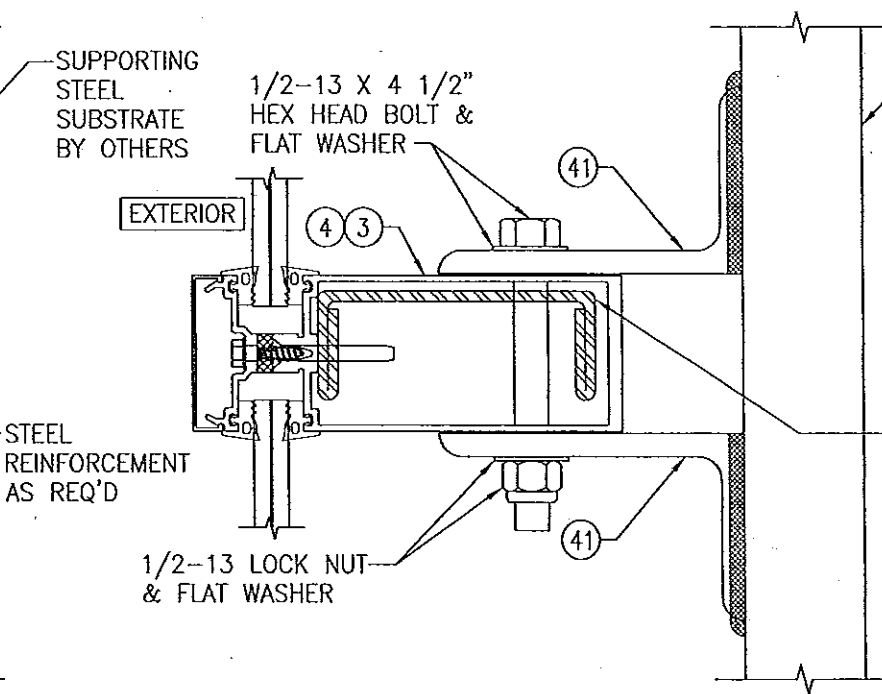
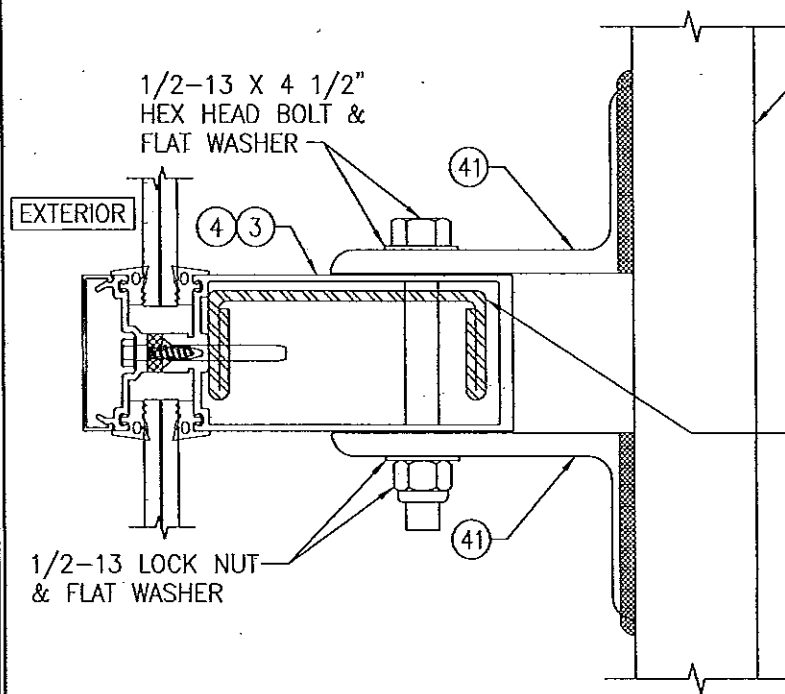
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SCALE: 1/4" = 1'-0"

NOTE: INFORMATION ON THIS
SHEET APPLIES TO ELEVATIONS
ON THIS SHEET ONLY.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-48		DATE: 03/09/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING NO. 1790			
SHEET NO. 5 OF 18			



△ STANDARD DEAD LOAD ANCHOR
SCALE: 1/3 FULL

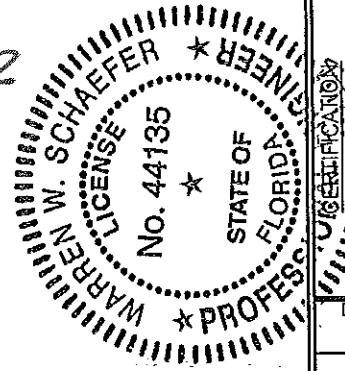
⊞ STANDARD WIND LOAD ANCHOR
SCALE: 1/3 FULL

NOTE: ALL 1/2" BOLTS
CONNECTING ANGLES TO
MULLIONS SHALL BE GRADE
5 STEEL OR 300 SERIES
STAINLESS STEEL.

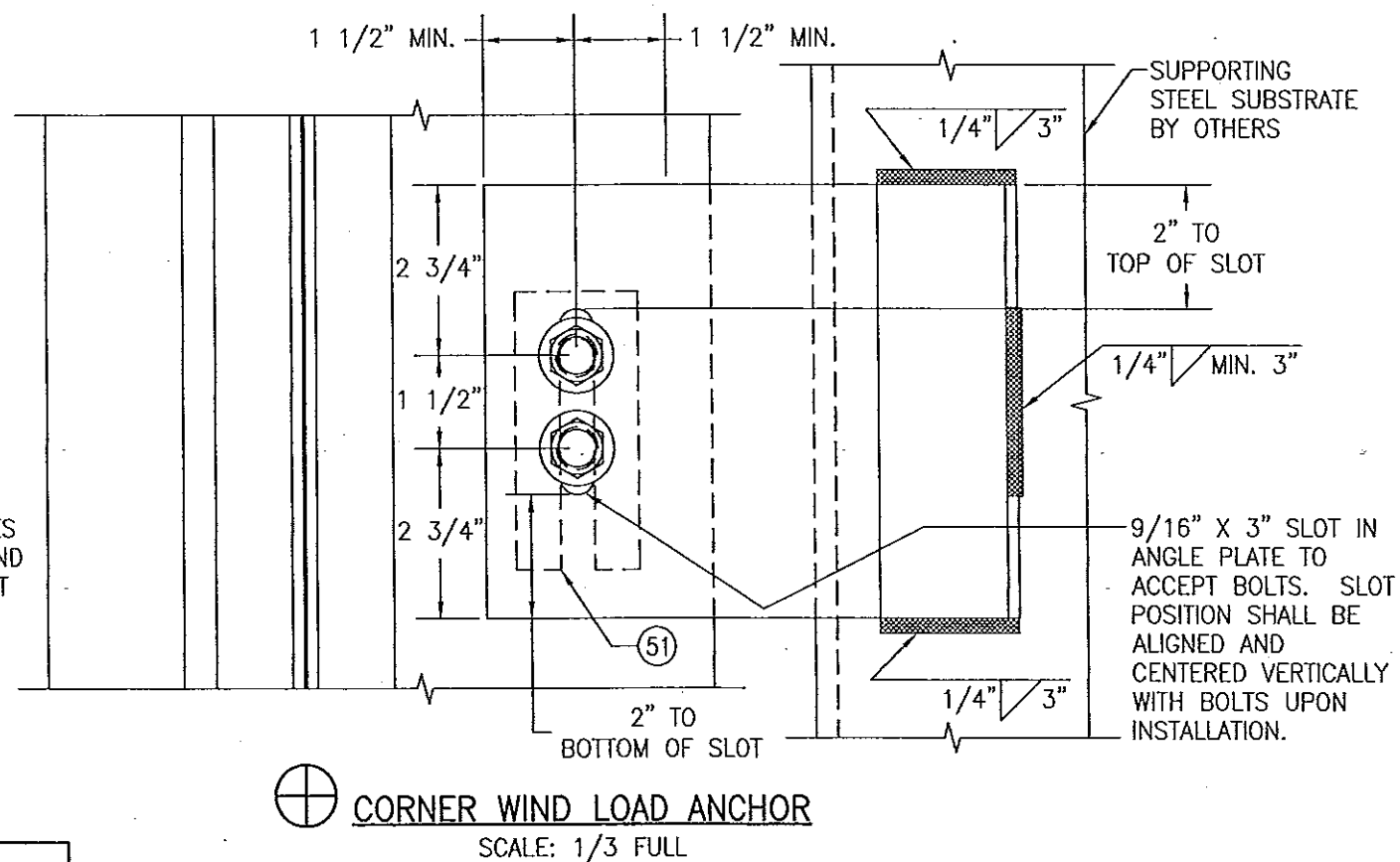
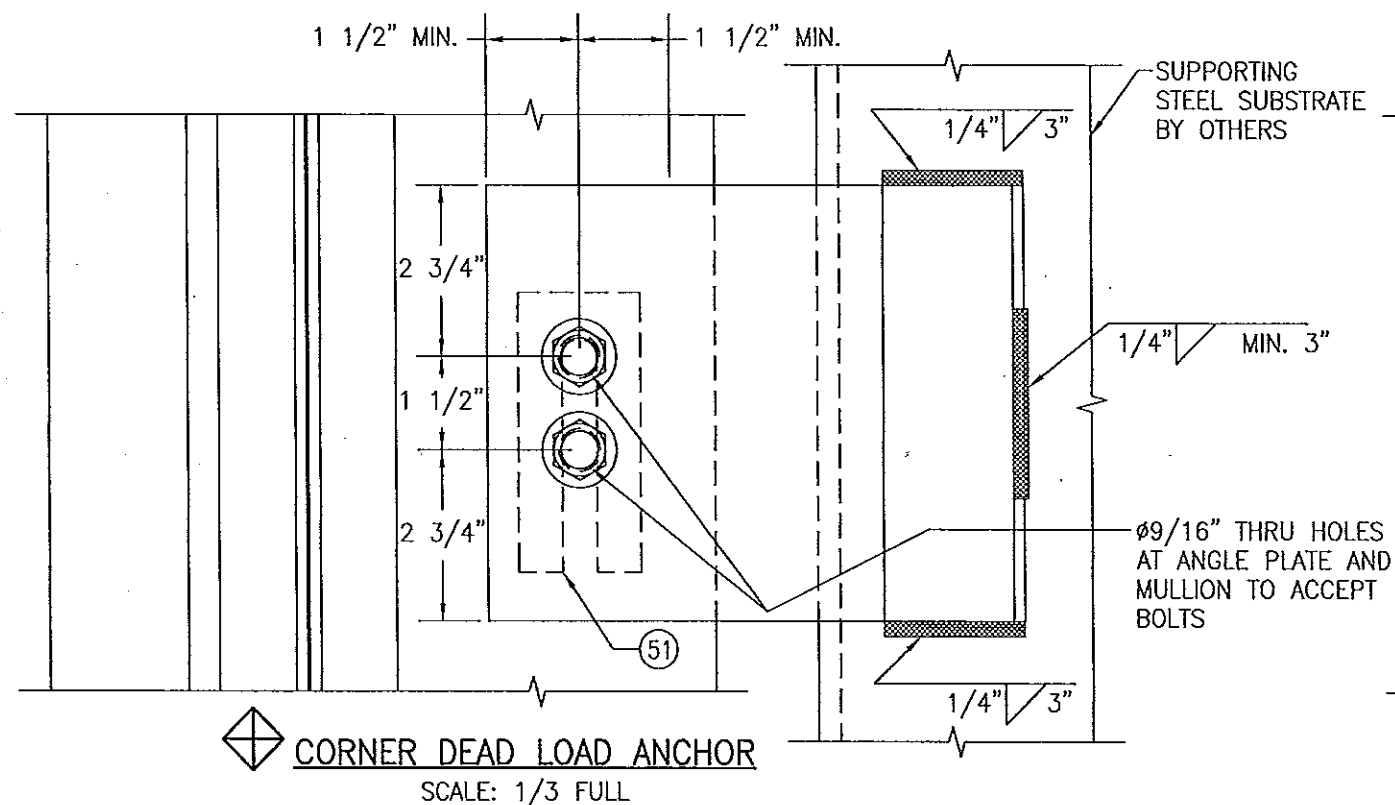
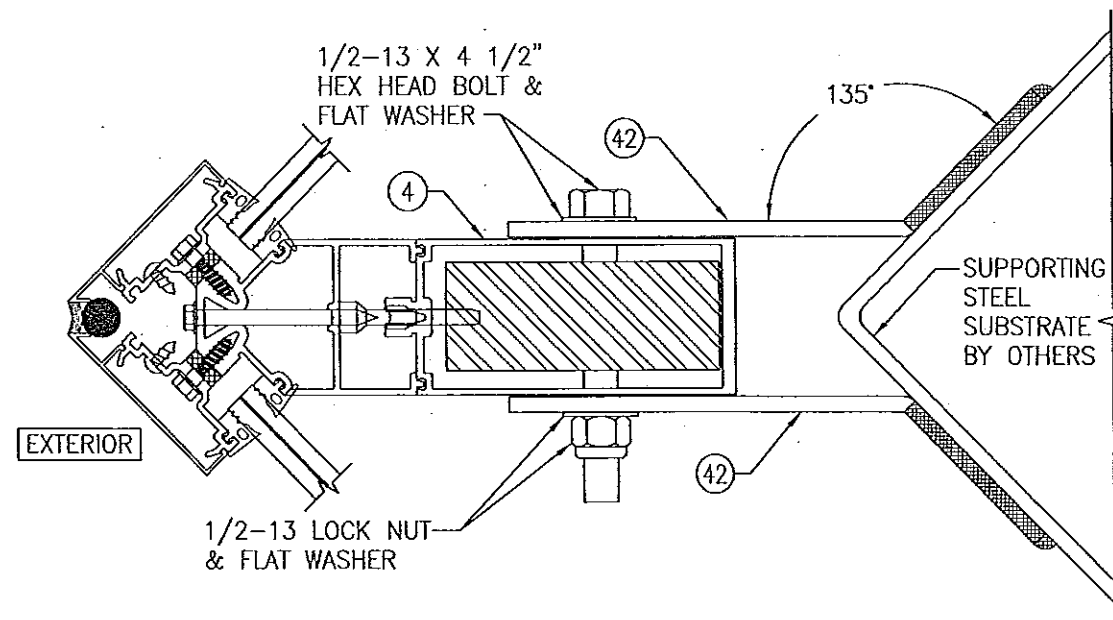
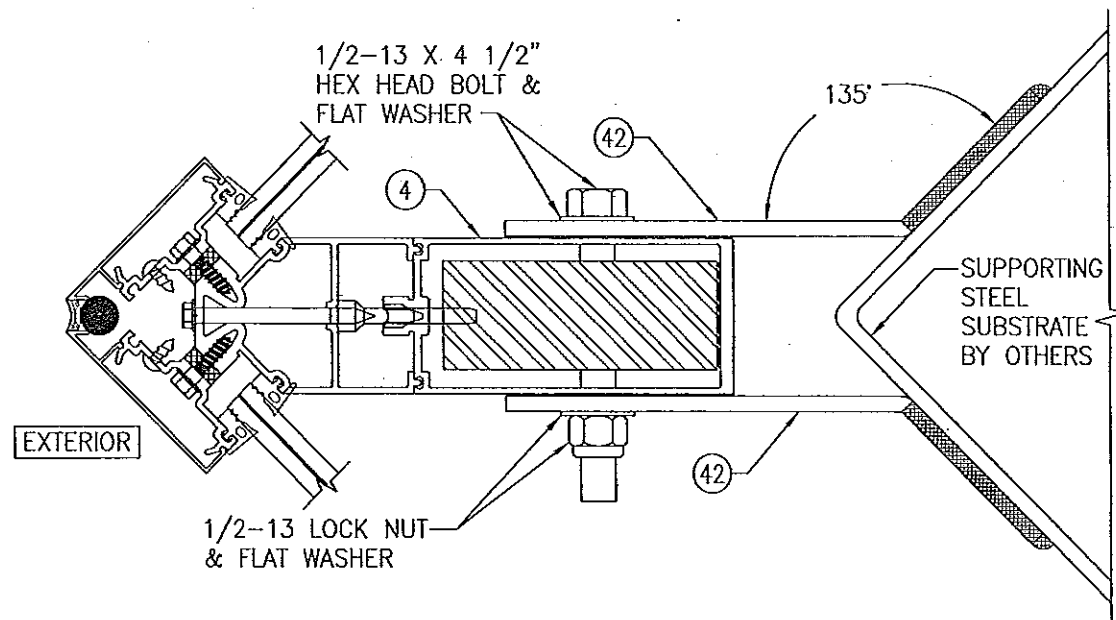
**ALTERNATE WELD DETAIL FOR WIND & DEAD
LOAD ANCHORS**
SCALE: 1/3 FULL

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Acceptance No. 14-0430.22
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By *Warren W. Schaefer*
Miami Dade Product Control

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Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016
By *Warren W. Schaefer*
Miami Dade Product Control



DRAWING TITLE	7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)
DRAWN BY:	W.W.S.
CHECKED BY:	W.W.S.
PLOT:	1=3
DATE:	03/09/12
NO.	
REVISION	
DESCRIPTION	
BY	
DATE	
MANUFACTURER	KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
DATE	JUN 19 2012
BY	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1790
SHEET NO.	6 OF 18



NOTE: ALL 1/2" BOLTS
CONNECTING ANGLES TO
MULLIONS SHALL BE GRADE
5 STEEL OR 300 SERIES
STAINLESS STEEL.

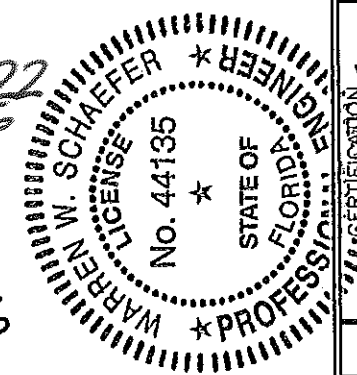
FOR ALTERNATE WELDING OF
ANGLES TO SUBSTRATE, SEE
"ALTERNATE WELD DETAIL"
ON SHEET 6.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0430.22
Expiration Date 06/22/2016

By *Manuel Torres*
Miami Dade Product Control

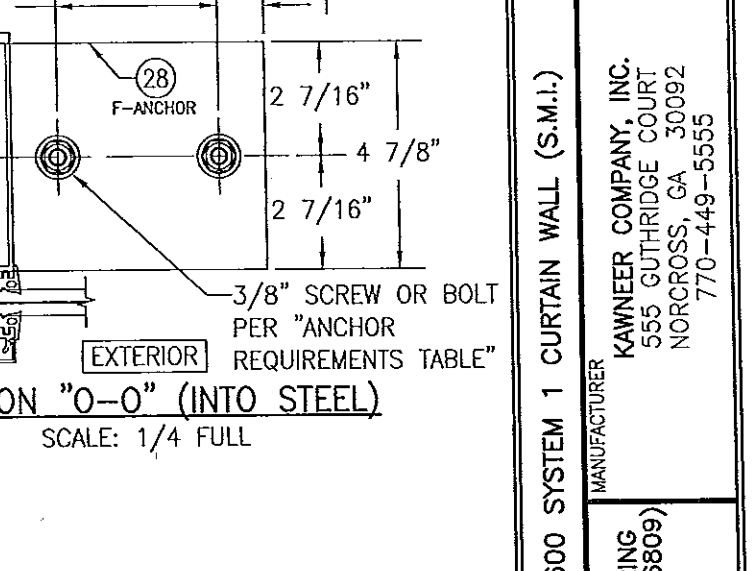
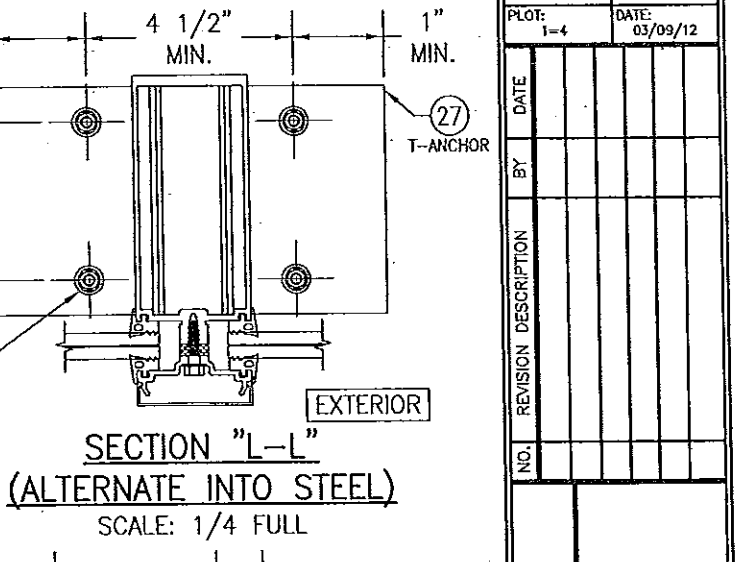
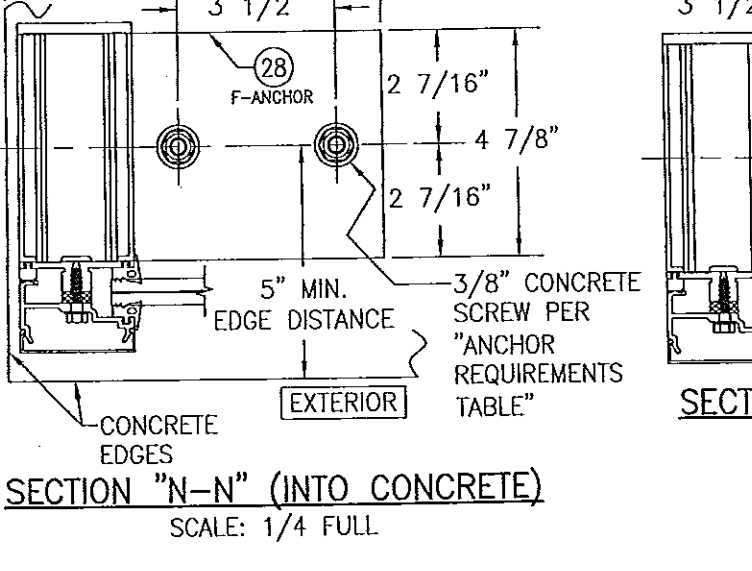
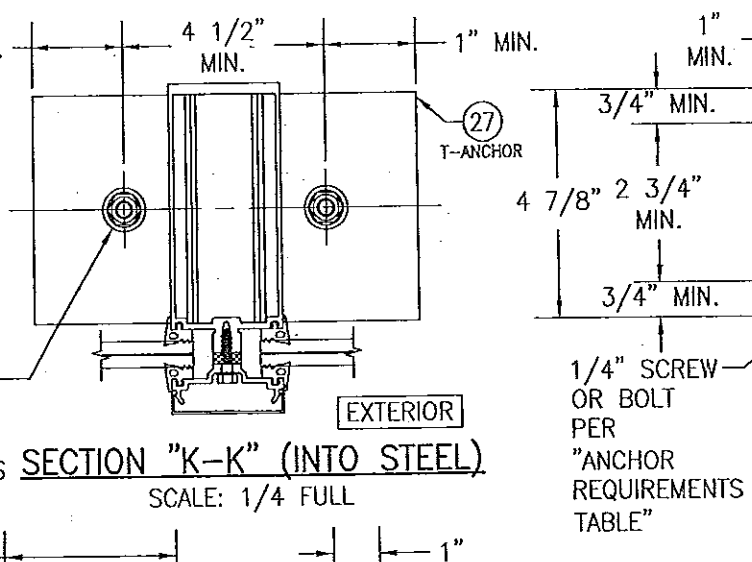
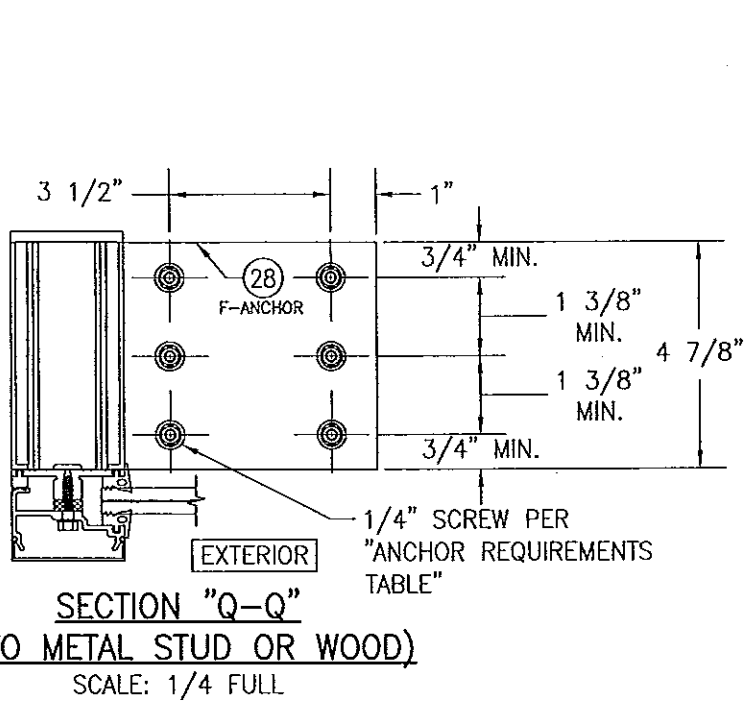
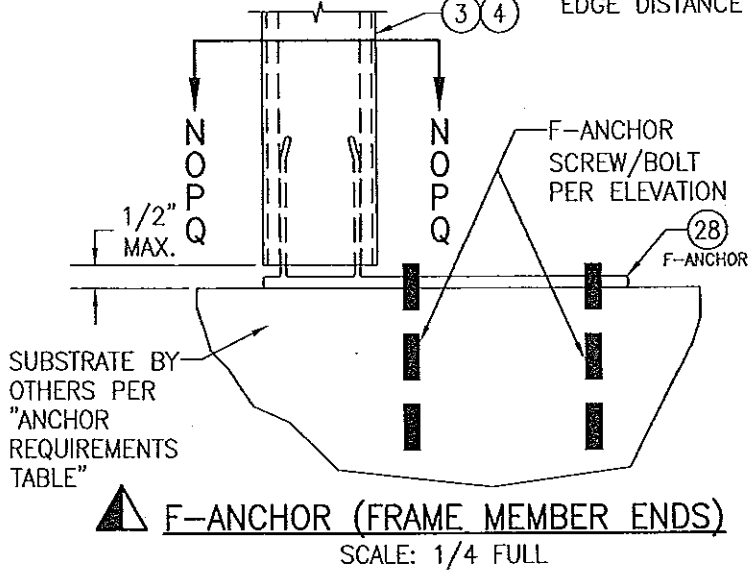
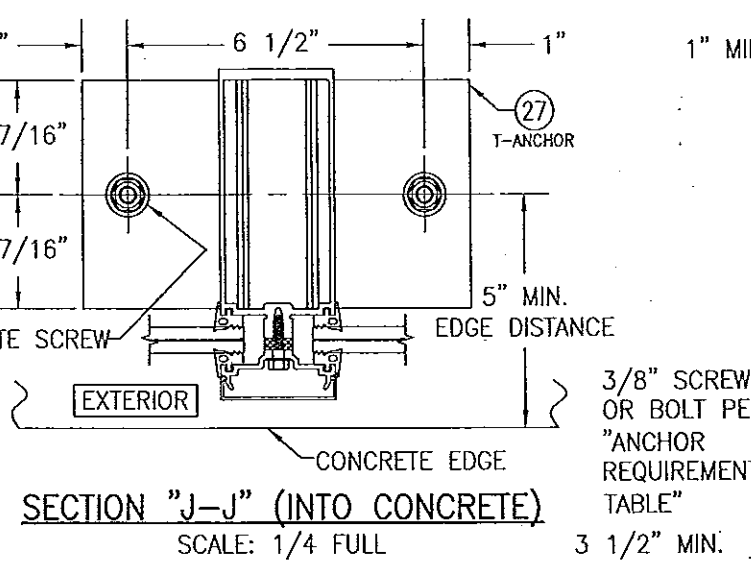
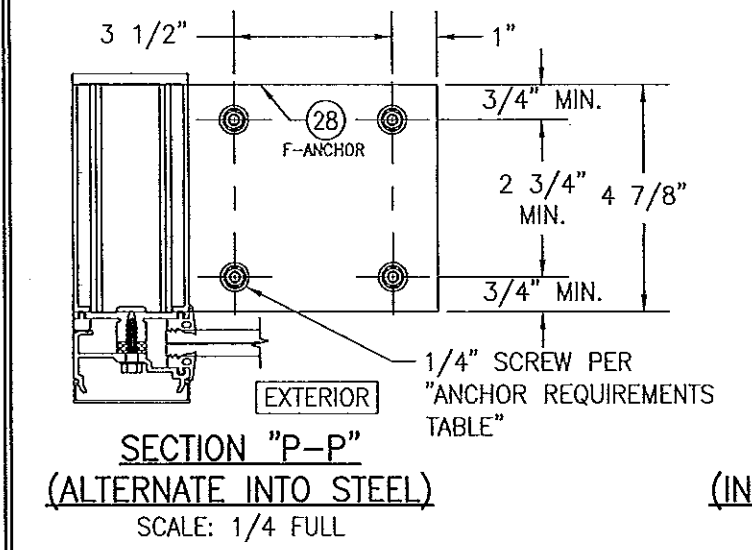
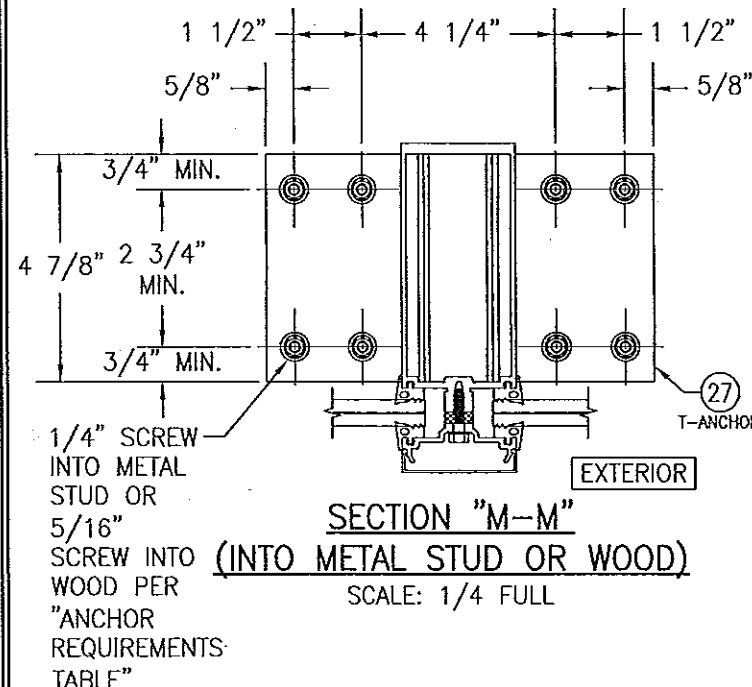
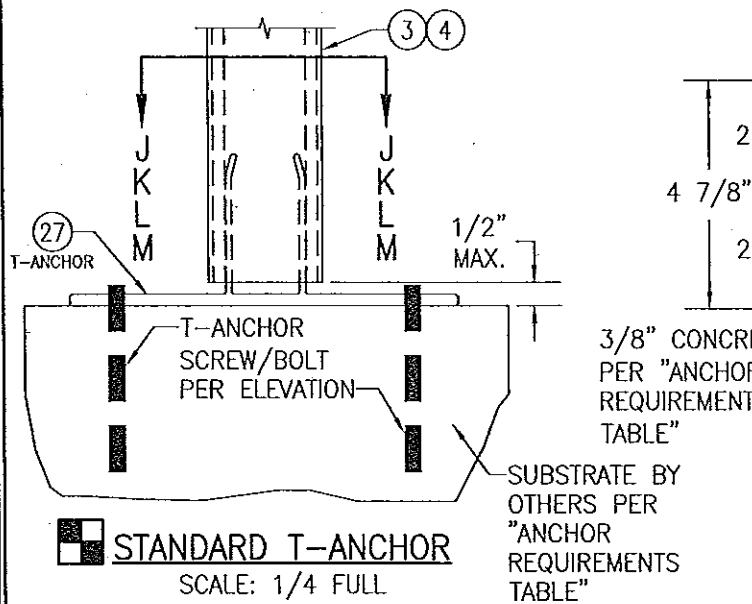
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016

By *Vikram*
Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=3		DATE: 03/09/12	
NO.	REVISION	DESCRIPTION	DATE

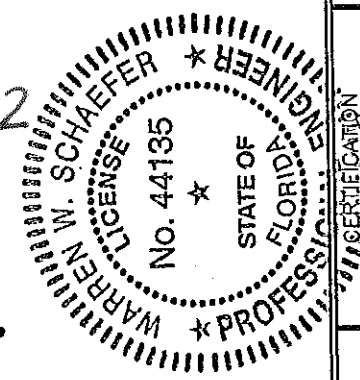
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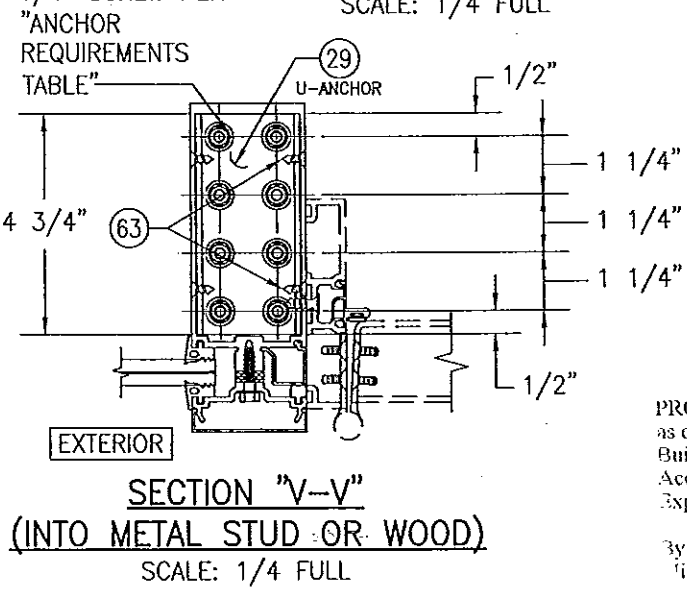
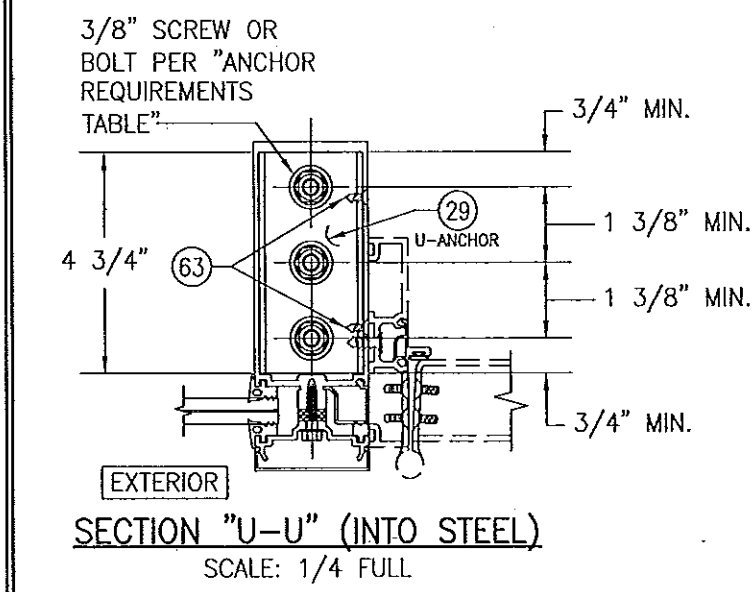
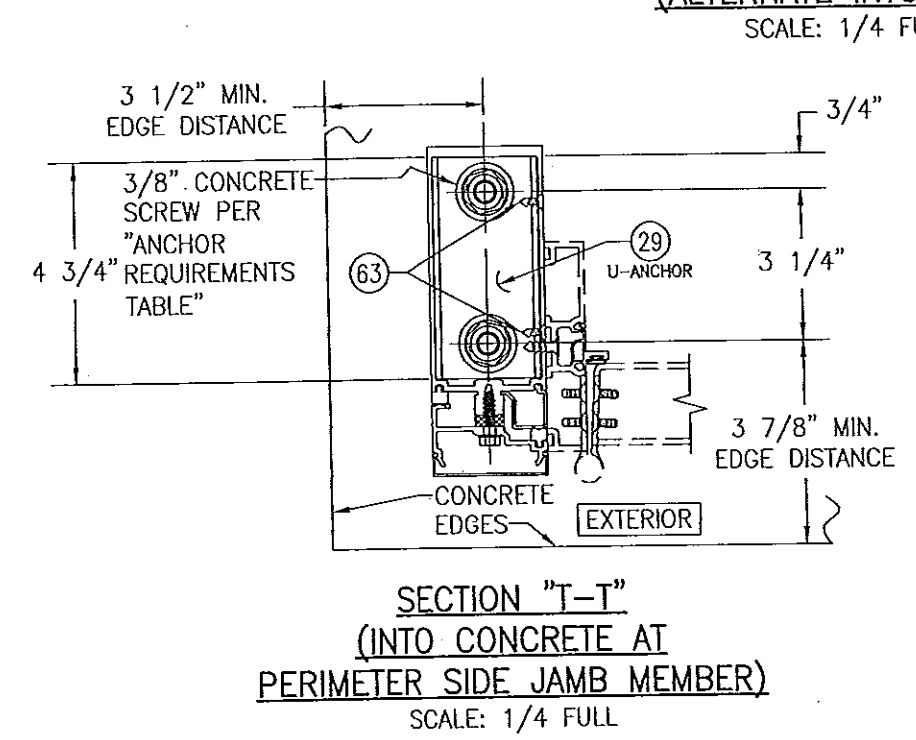
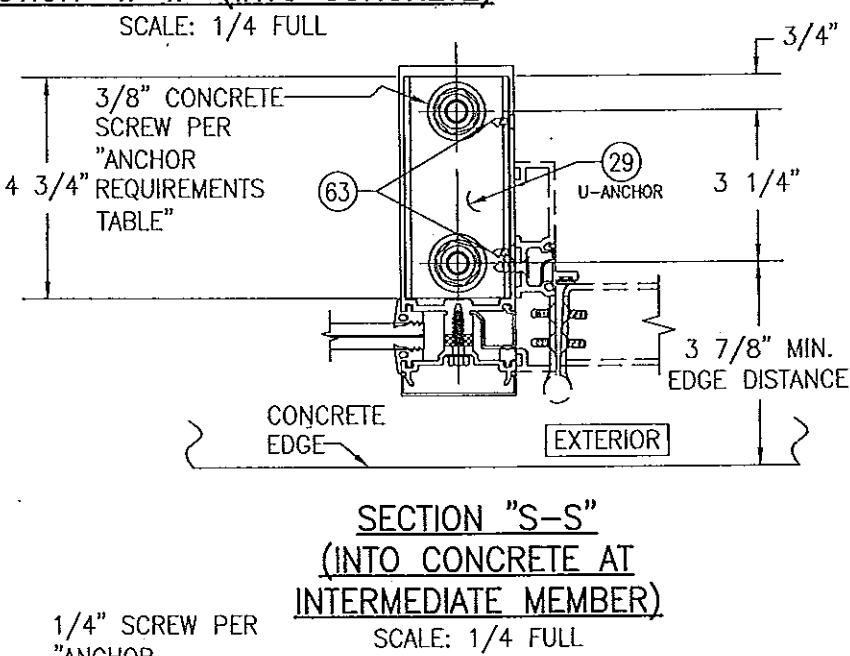
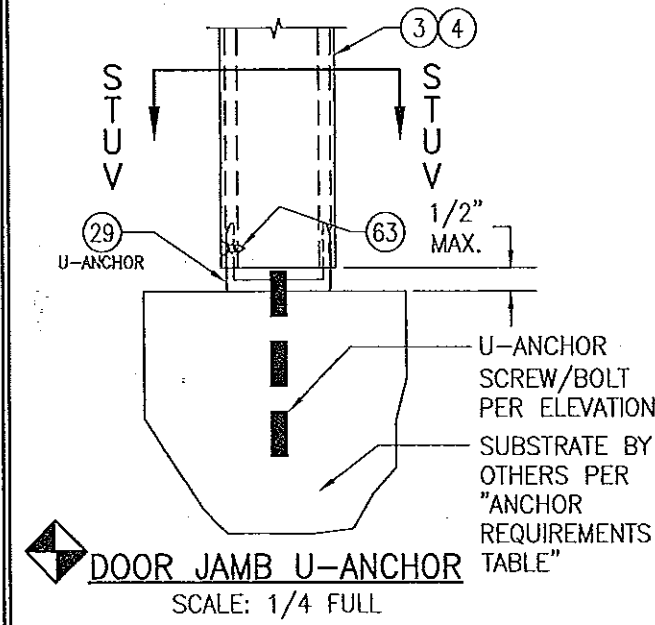
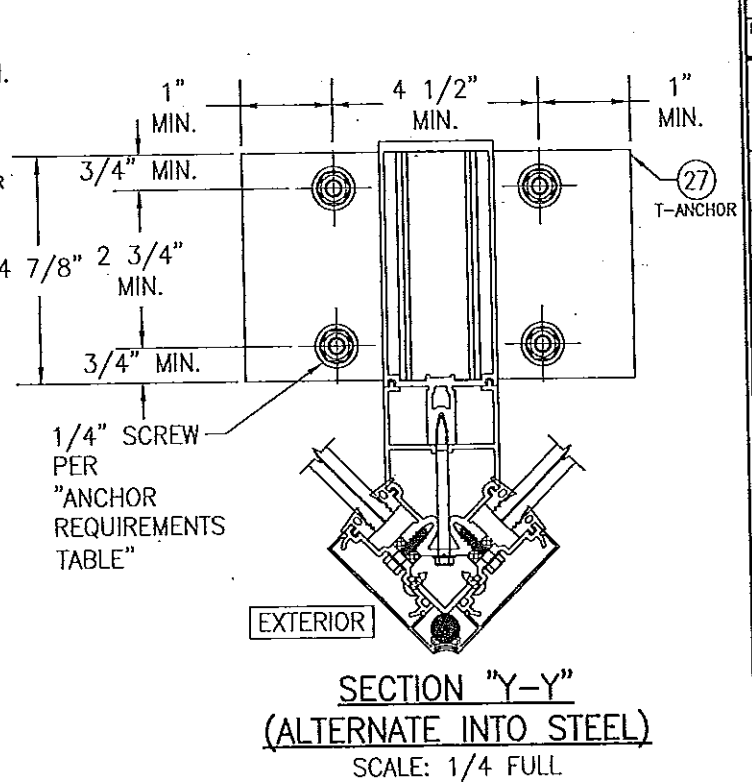
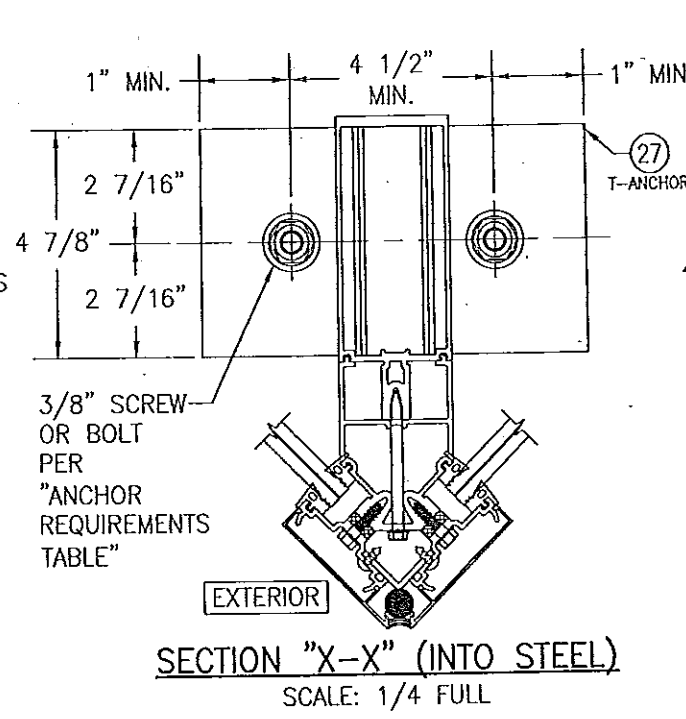
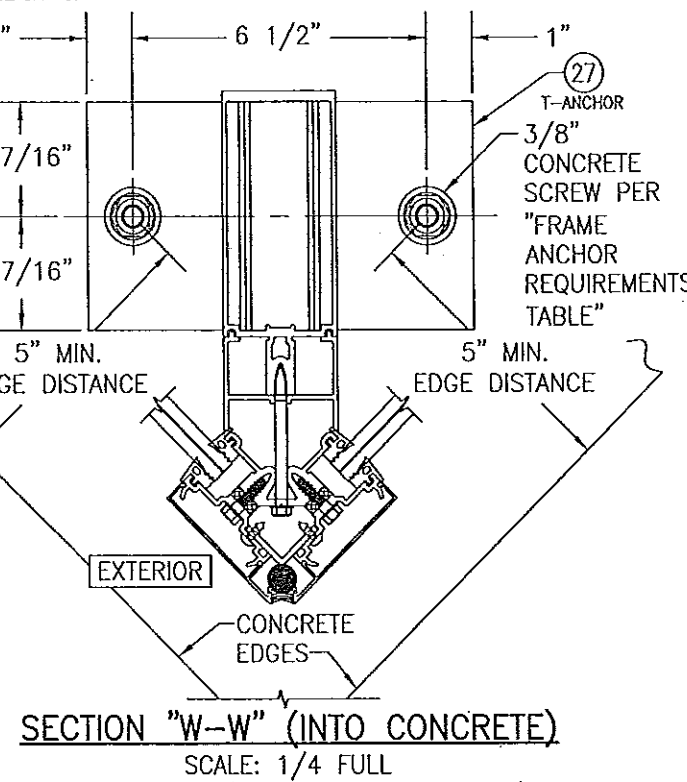
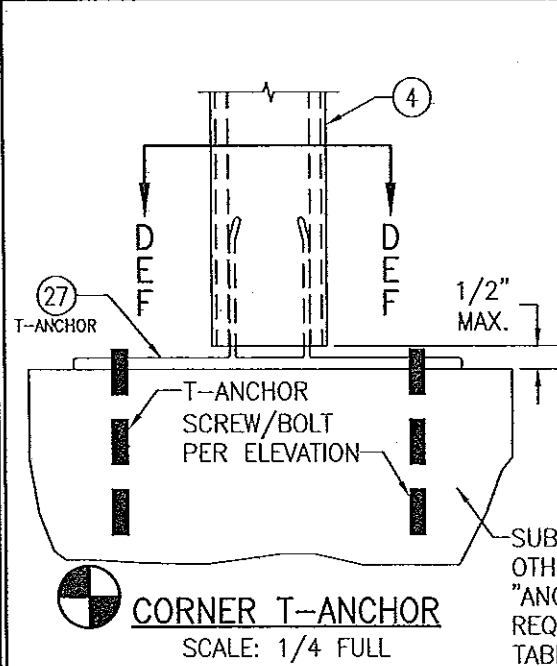
THIS SHEET IS DEDICATED TO NON-REINFORCED SINGLE-SPAN ANCHOR CONDITIONS

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 14-0430.22
 Expiration Date 06/22/2016
 By *Warren W. Schaefer*
 Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 12-0622.06
 Expiration Date 06/22/2016
 By *Warren W. Schaefer*
 Miami Dade Product Control



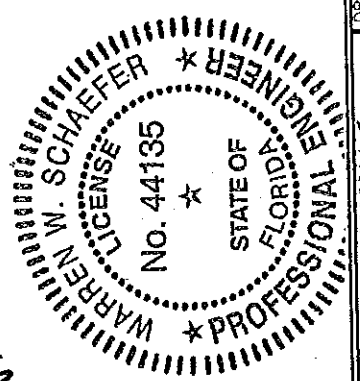
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PLOT: 1-4	DATE: 03/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: JUN 19 2012 WARREN W. SCHAEFER, P.E. No. 44135	
DRAWING NO. 1790	REV. 9 OF 18



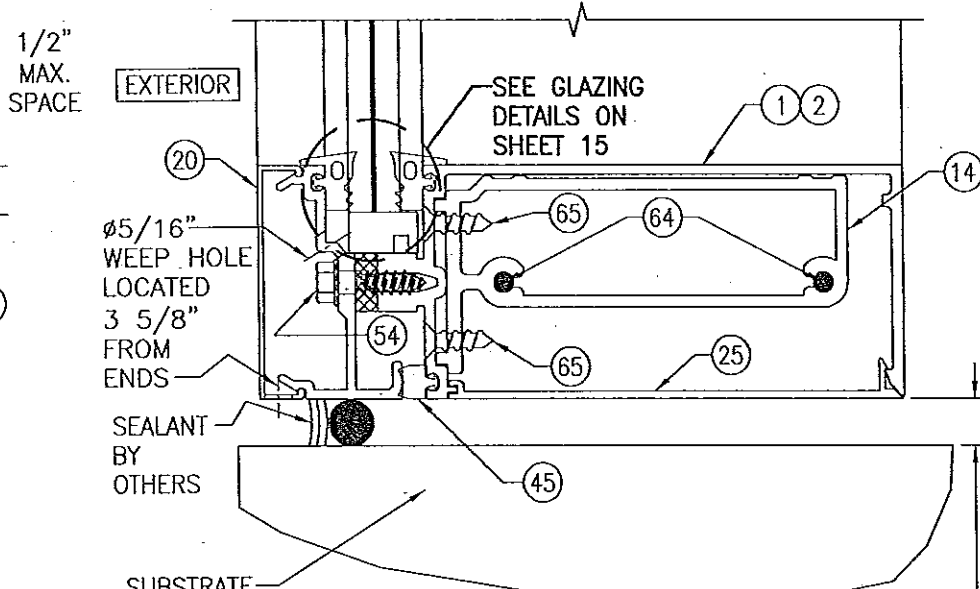
THIS SHEET IS DEDICATED TO NON-REINFORCED SINGLE-SPAN ANCHOR CONDITIONS

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 14-0430.22
 Expiration Date 06/22/2016
 By Manuel Perez
 Miami Dade Product Control

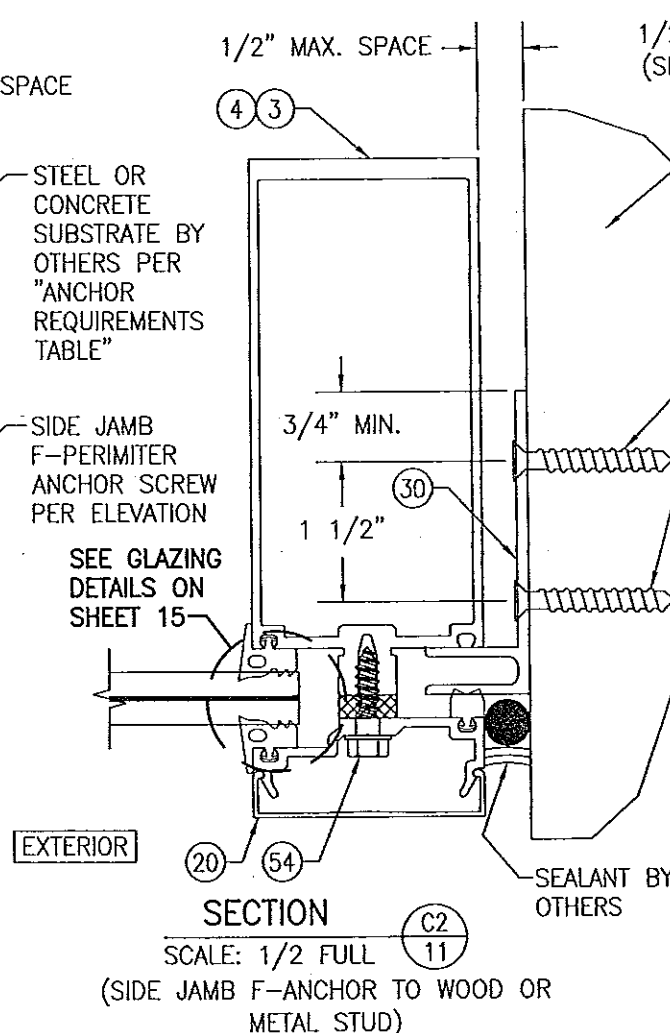
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 12-0622.06
 Expiration Date 06/22/2016
 By Warren W. Schaefer
 Miami Dade Product Control



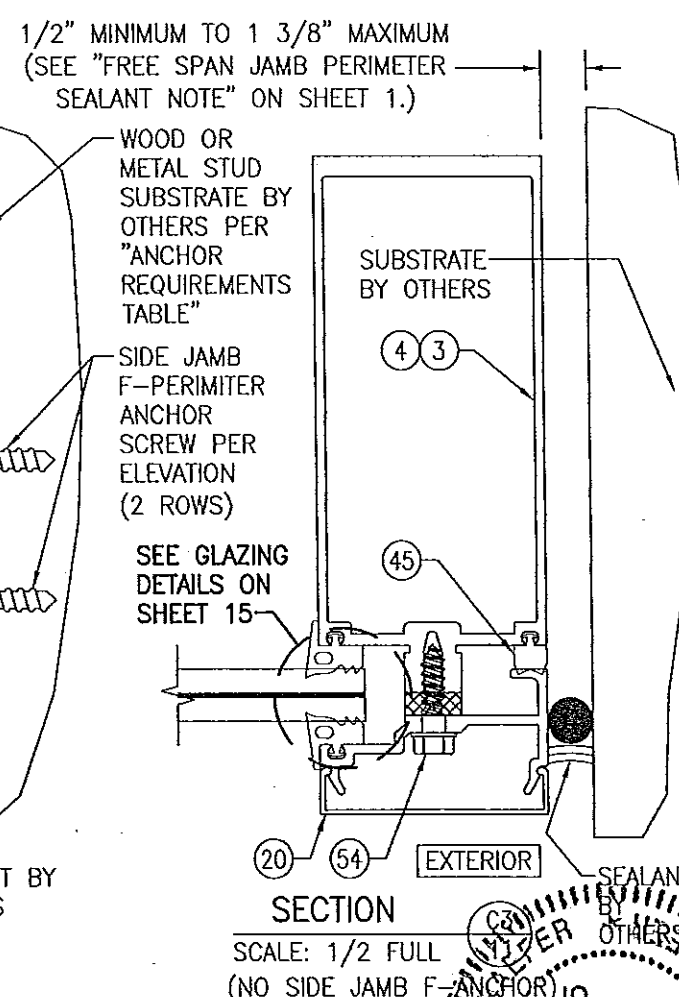
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PLOT: 1=4	DATE: 03/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC.	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	
WARREN W. SCHAEFER, P.E. NO. 102012 P.E. NO. 44135	
DRAWING NO. 1790	REV.
SHEET NO. 10	OF 18



SECTION B1
SCALE: 1/2" FULL 11



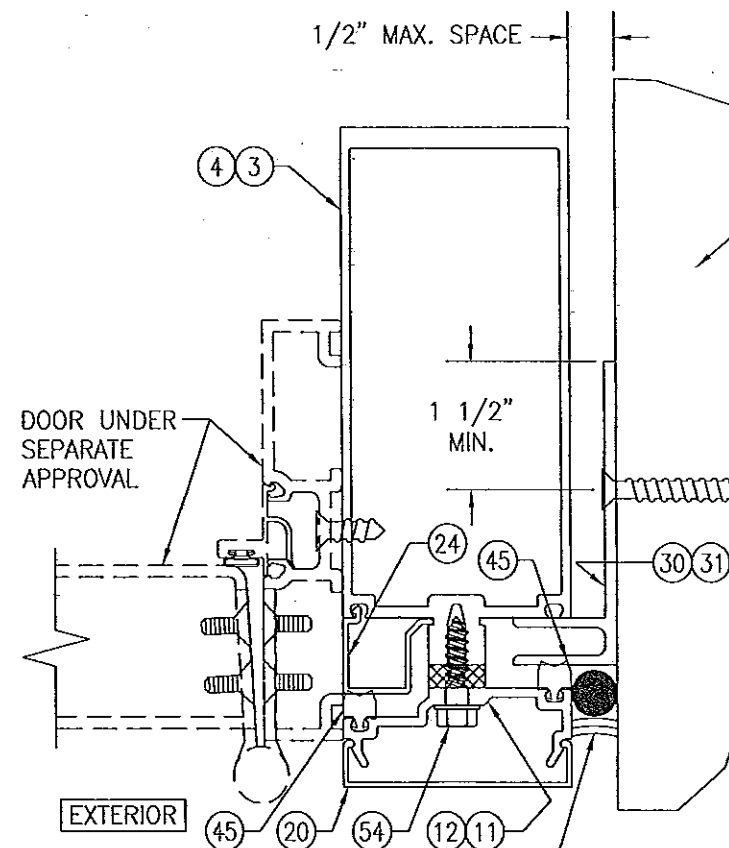
SECTION (C2)
SCALE: 1/2 FULL (11)
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)



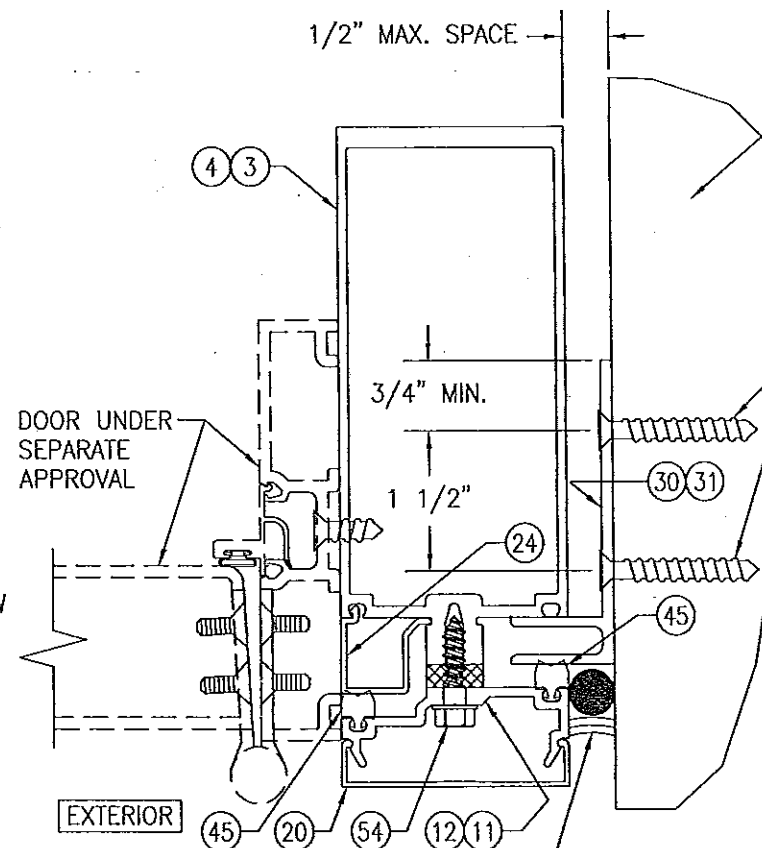
SECTION
SCALE: 1/2" = 1'-0"
(NO SIDE JAMB F-ANCHOR)

PRODUCT REVISED
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Expiration Date 06/22/2016
By Viktor Iwan
Miami Dade Product Control

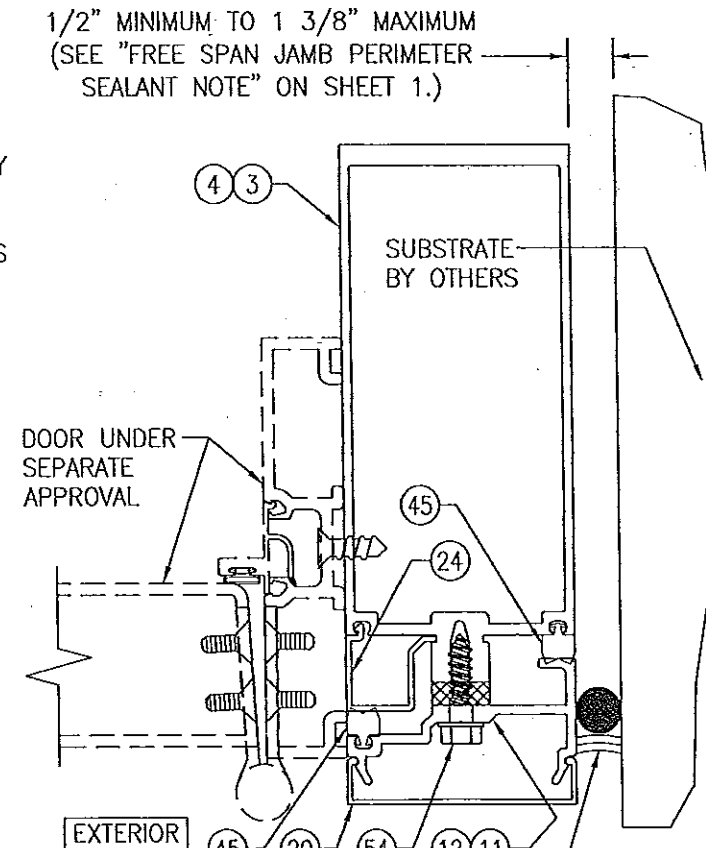
DRAWING NO. 1790	SHEET NO. 11 OF 18	WARREN W. SCHAEFER, P.E. JUN 19 2012	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)				DRAWN BY: W.W.S.				CHECKED BY: W.W.S.			
									PLOT: 1=2				DATE: 03/03/12			
					NO.	REVISION DESCRIPTION	BY	DATE	NO.	REVISION DESCRIPTION	BY	DATE	NO.	REVISION DESCRIPTION	BY	DATE



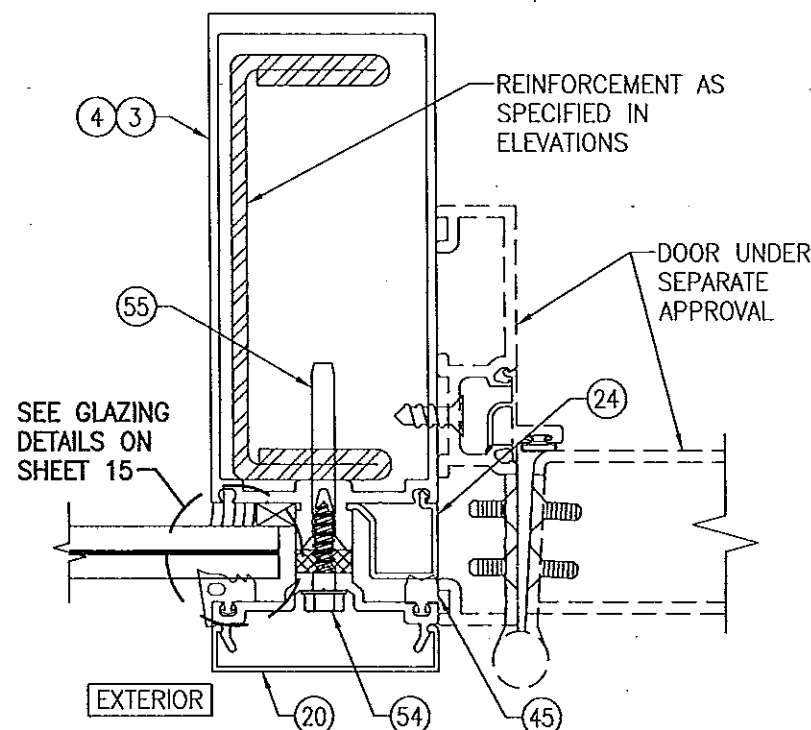
SECTION D1
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO STEEL AND CONCRETE)



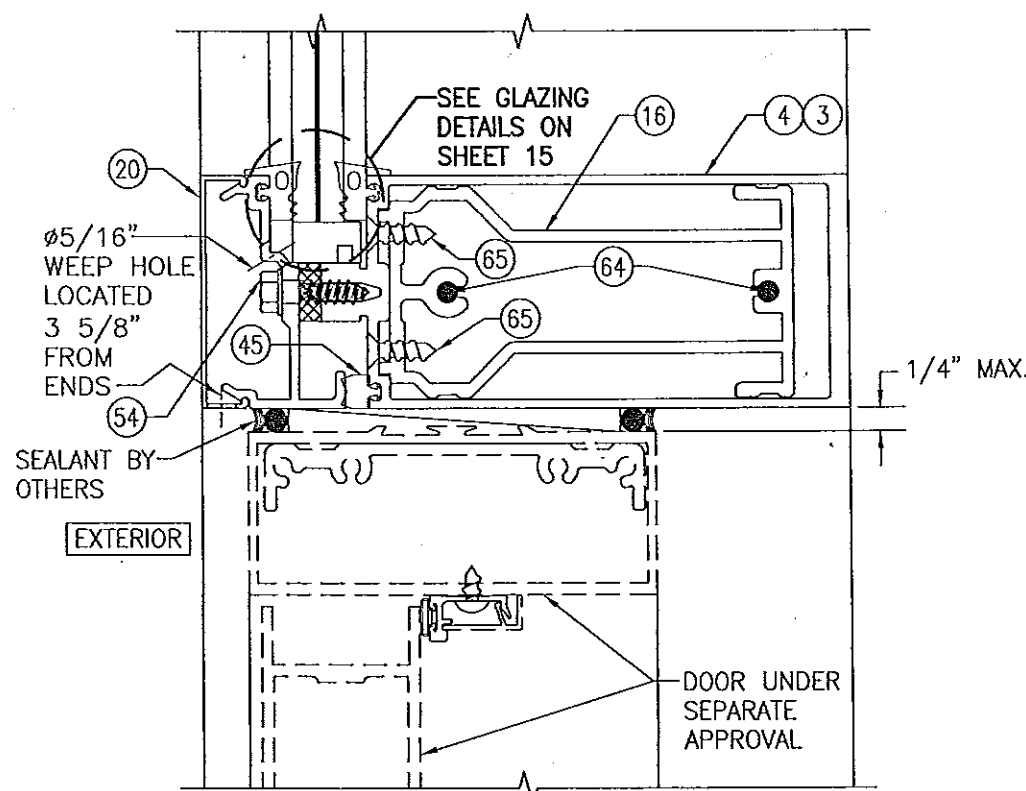
SECTION D2
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)



SECTION D3
SCALE: 1/2 FULL
(NO SIDE JAMB F-ANCHOR)



SECTION E
SCALE: 1/2 FULL



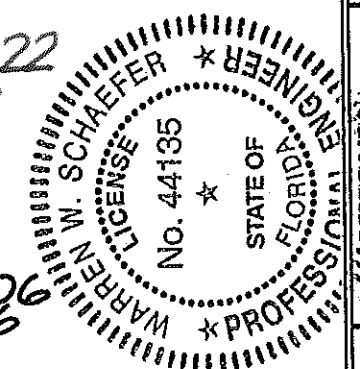
SECTION F
SCALE: 1/2 FULL

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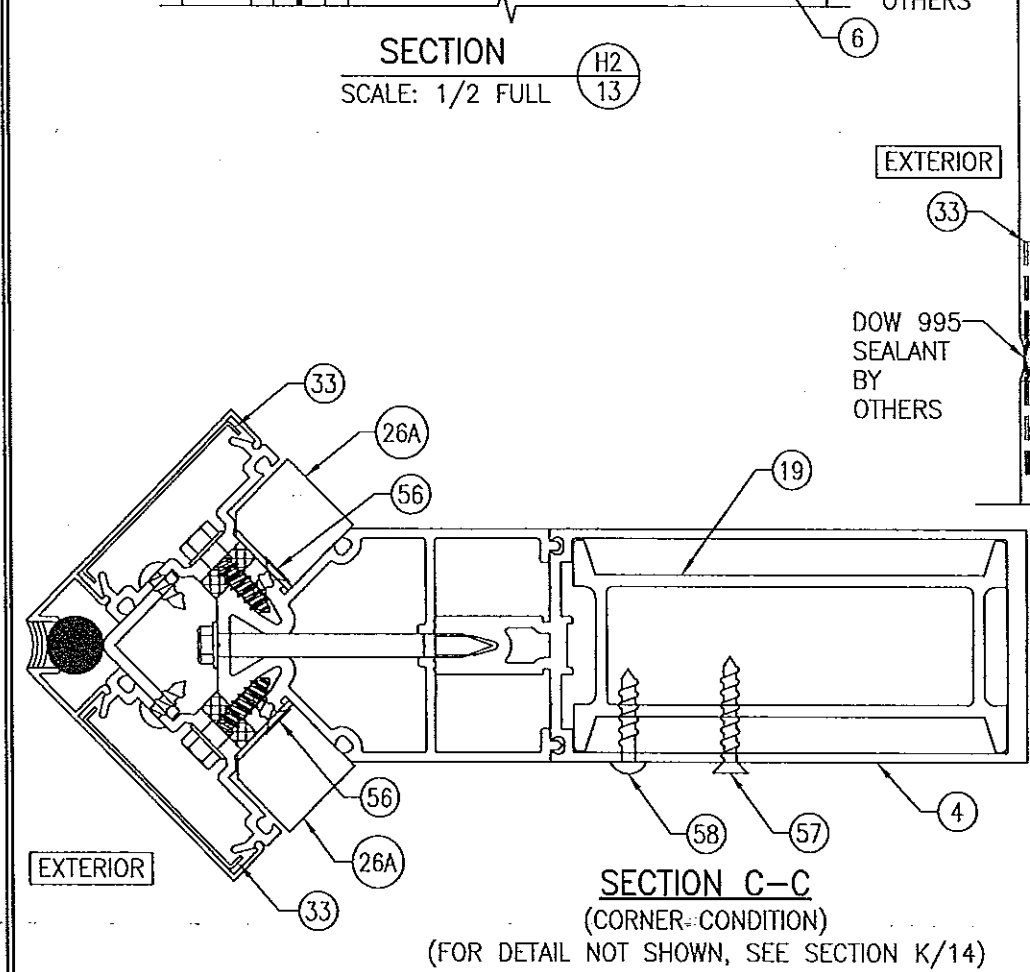
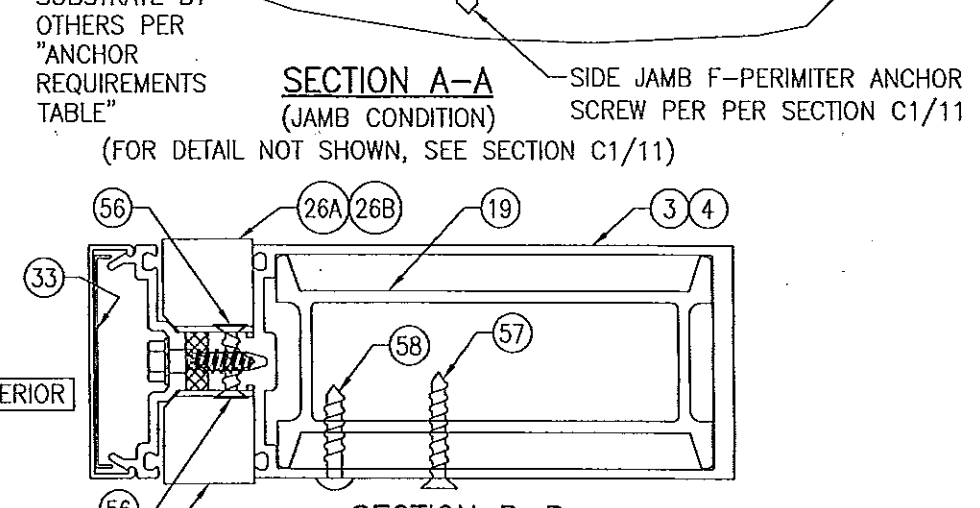
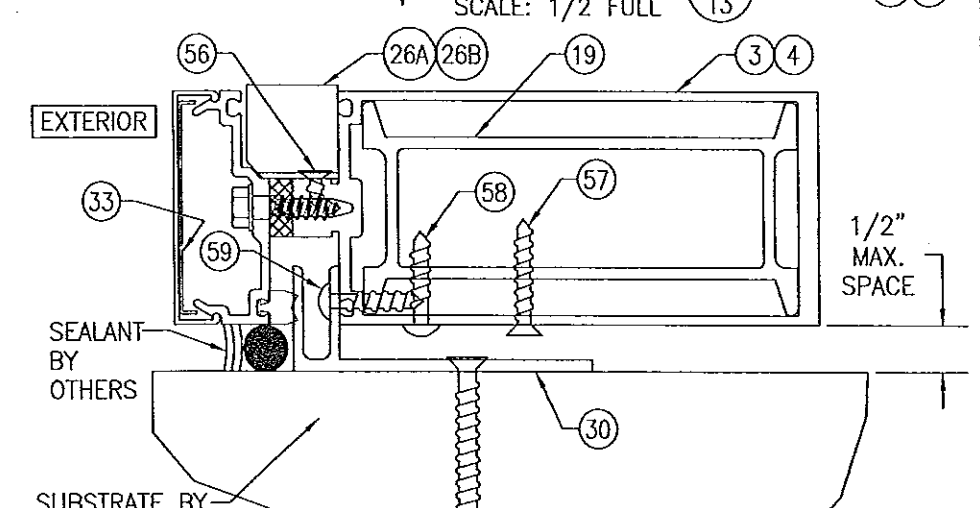
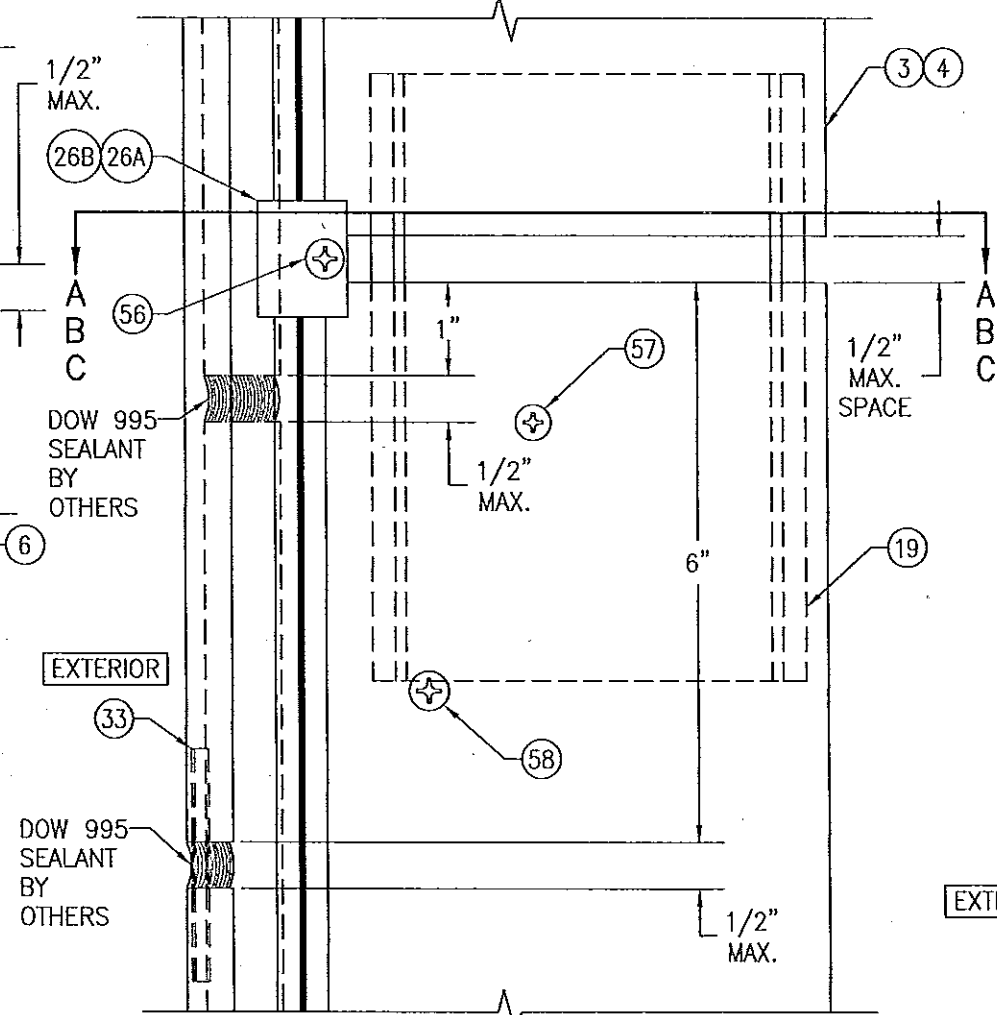
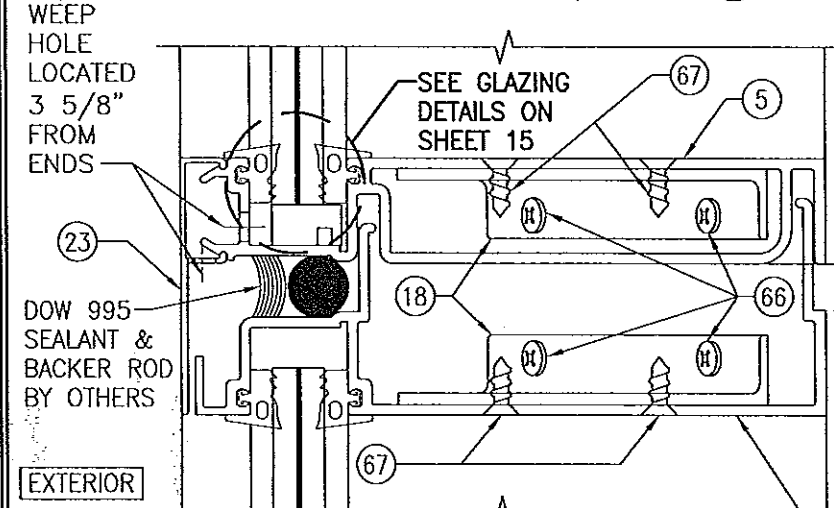
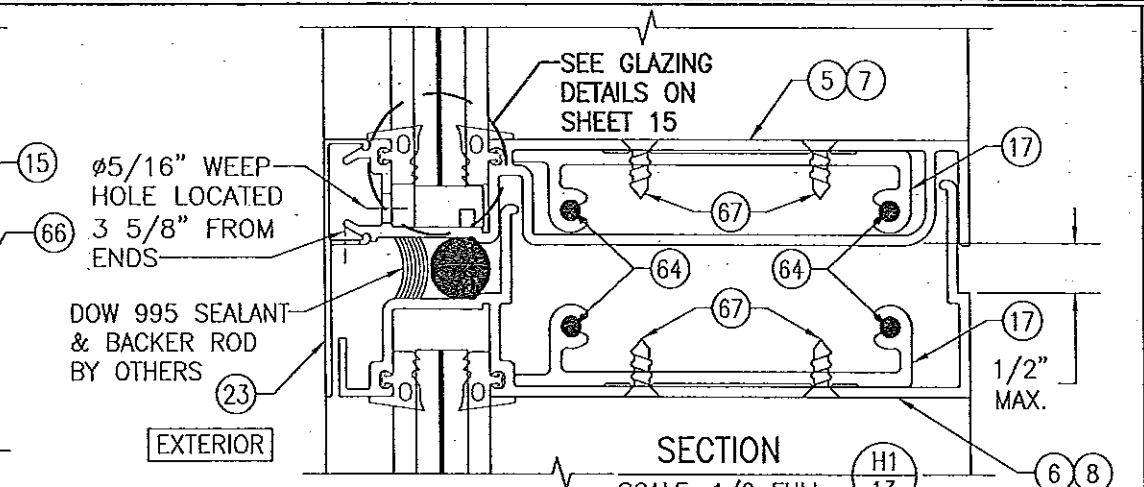
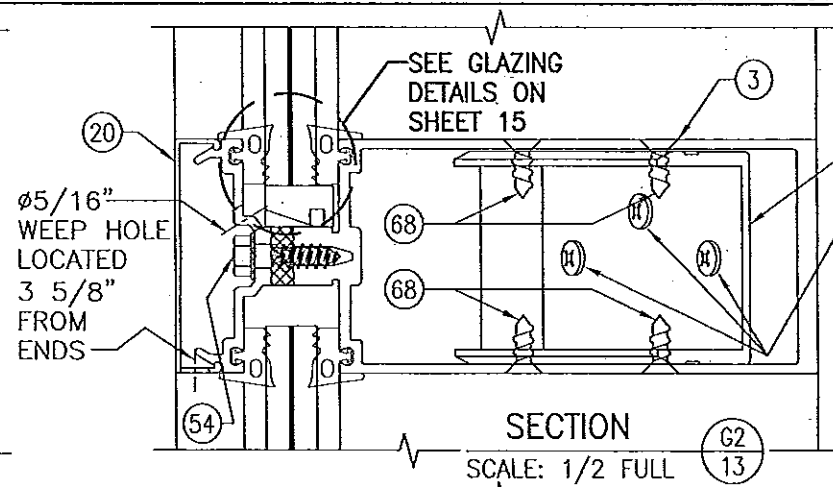
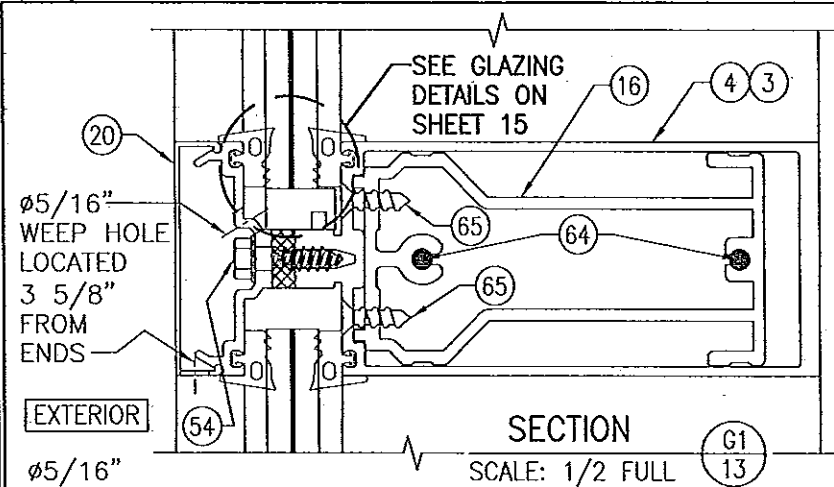
By *Warren W. Schaefer*
Miami Dade Product Control

PRODUCT REVISED
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Acceptance No. 12-0622.06
Expiration Date 06/22/2016

By *Warren W. Schaefer*
Miami Dade Product Control

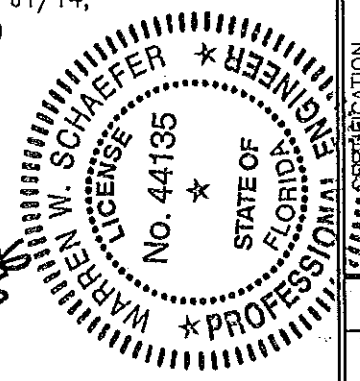



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1790	REV.
SHEET NO. 12 OF 18	

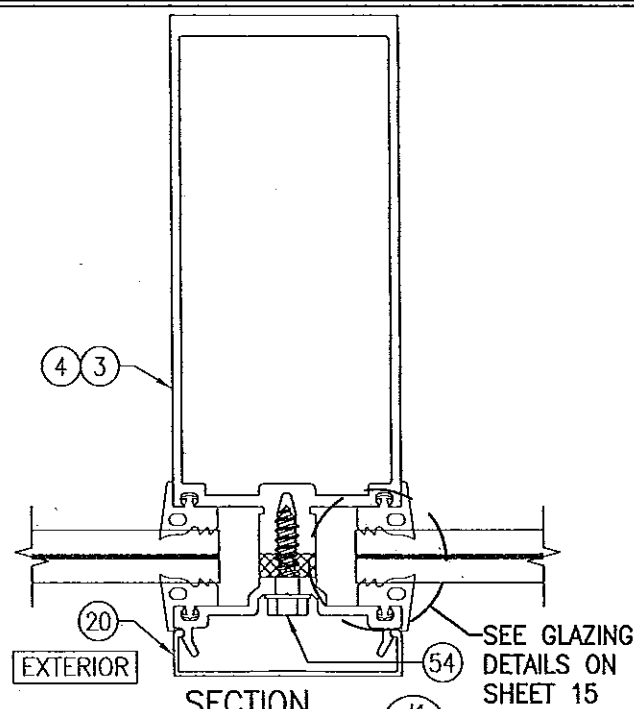


PRODUCT REVISED
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Building Code
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Expiration Date 06/22/2016
By *Manuel Ruiz*
Miami Dade Product Control

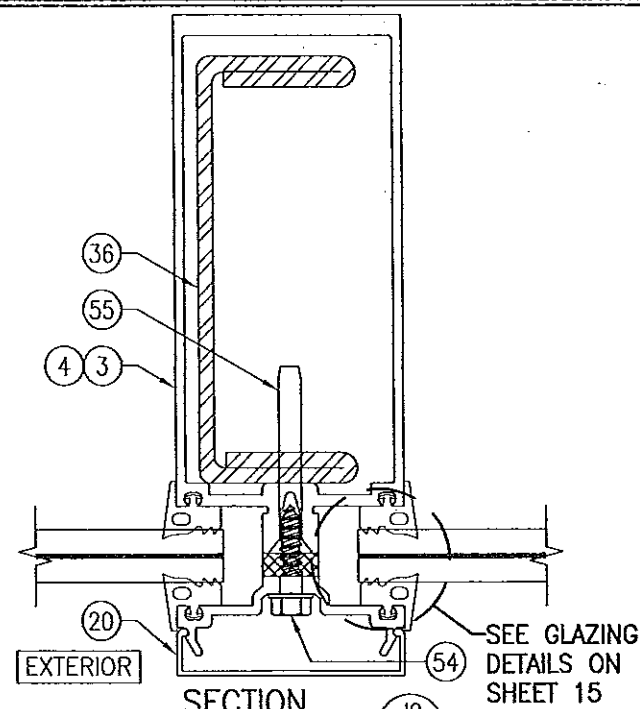
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016
By *Warren W. Schaefer*
Miami Dade Product Control



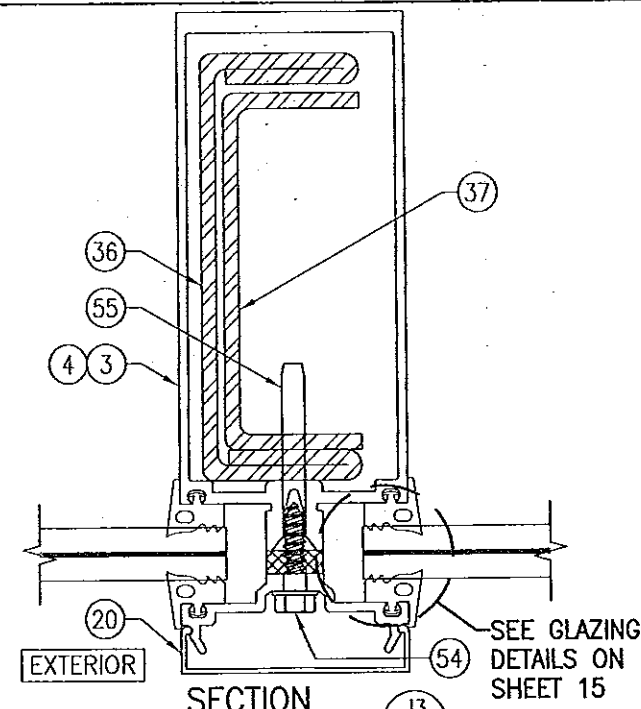
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.		
PLOT: 1=2		DATE: 03/09/12		
NO.	REVISION	DESCRIPTION	BY	DATE
DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)				
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424				
CERTIFICATION  JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1790		REV.		
SHEET NO. 13 OF 18				



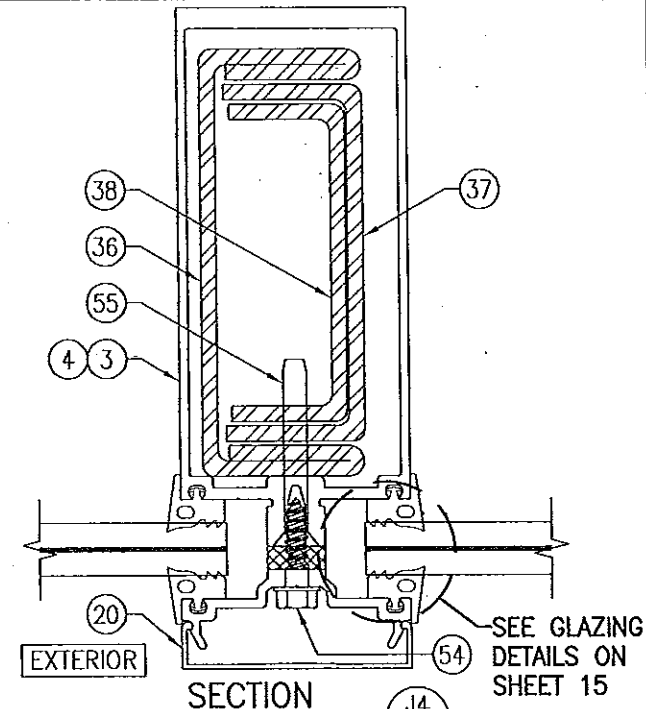
SECTION J1
SCALE: 1/2 FULL 14
VERTICAL FRAME MEMBER WITH NO REINFORCEMENT
 $I = 13.768 \text{ IN}^4$
 $S = 4.157 \text{ IN}^3$



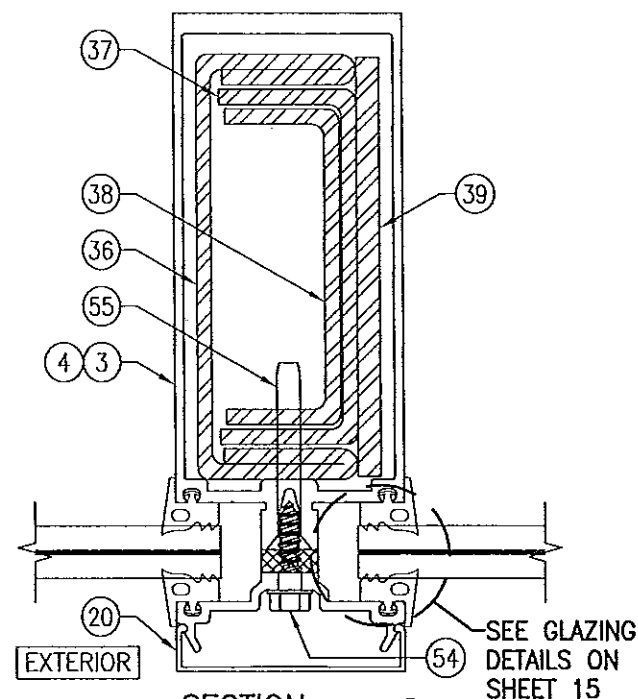
SECTION J2
SCALE: 1/2 FULL 14
VERTICAL FRAME MEMBER WITH REINFORCEMENT R1
 $I = 30.629 \text{ IN}^4$
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(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)



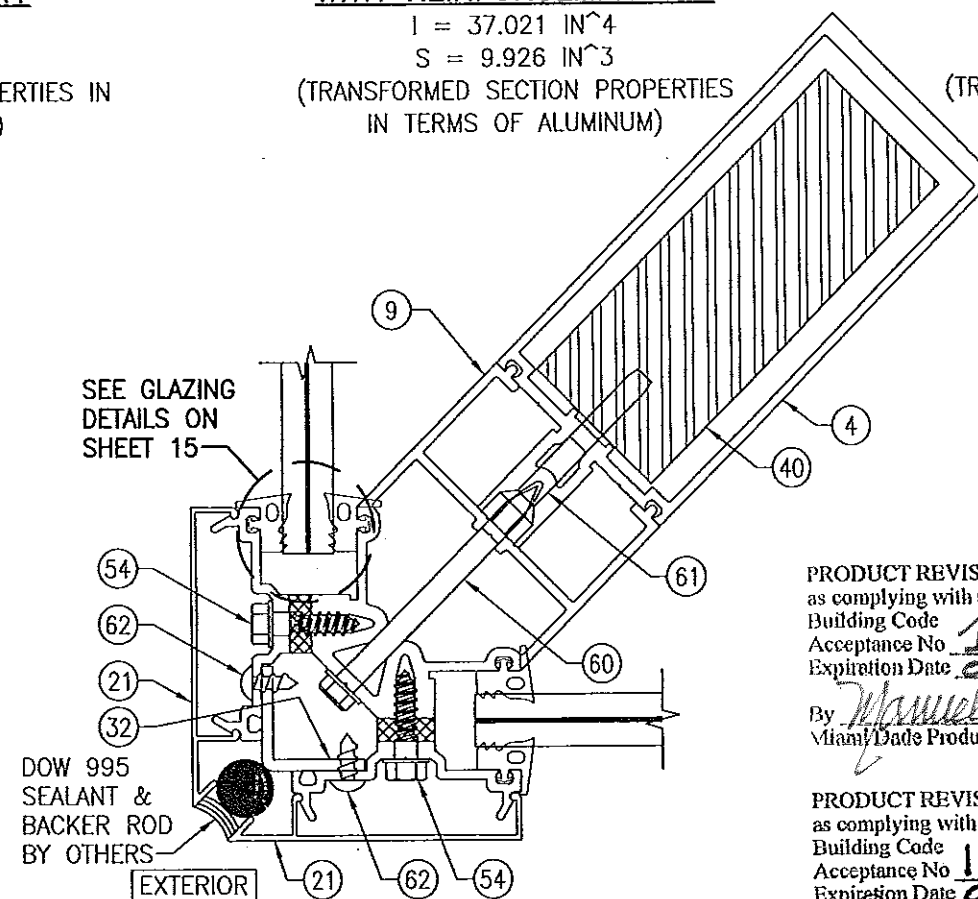
SECTION J3
SCALE: 1/2 FULL 14
VERTICAL FRAME MEMBER WITH REINFORCEMENT R2
 $I = 37.021 \text{ IN}^4$
 $S = 9.926 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)



SECTION J4
SCALE: 1/2 FULL 14
VERTICAL FRAME MEMBER WITH REINFORCEMENT R3
 $I = 41.202 \text{ IN}^4$
 $S = 11.01 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)



SECTION J5
SCALE: 1/2 FULL 14
VERTICAL FRAME MEMBER WITH REINFORCEMENT R4
 $I = 46.707 \text{ IN}^4$
 $S = 12.387 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)



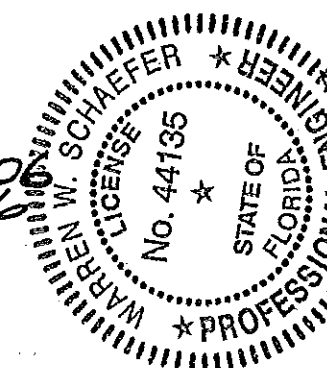
SECTION K
SCALE: 1/2 FULL 14
VERTICAL CORNER/FRAME MEMBER WITH REINFORCEMENT R5
 $I = 116.75 \text{ IN}^4$
 $S = 17.296 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)

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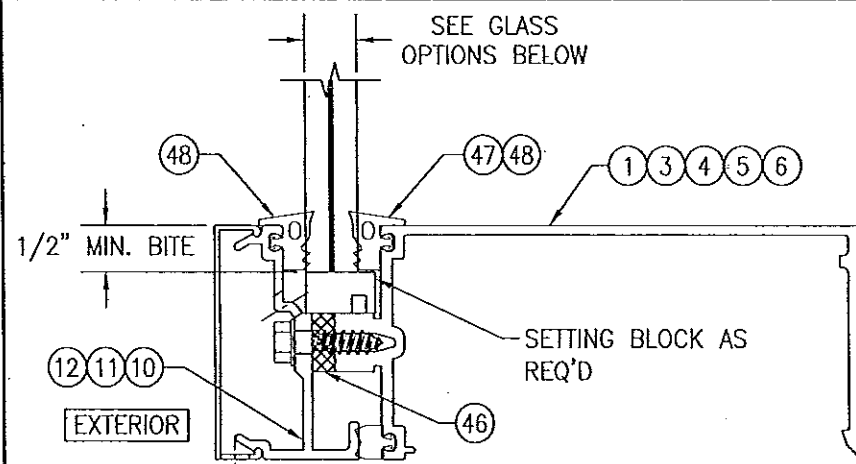
By *Manuel Ruiz*
Miami Dade Product Control

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Building Code
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By *Manuel Ruiz*
Miami Dade Product Control



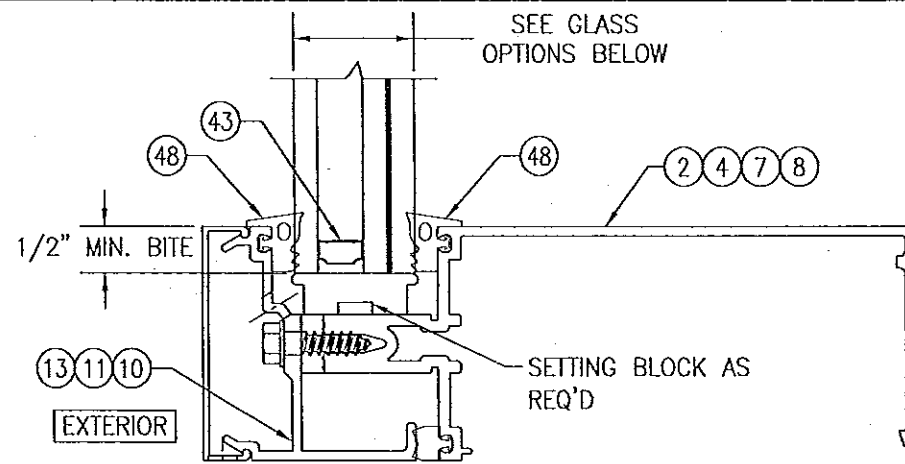
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1790	REV.
SHEET NO. 14 OF 18	



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:

- OPTION 1: 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST.)
 OPTION 2 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" SOLUTIA SAFLEX IIIIG PVB/1/4" HT. ST.)
 OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST.)
 OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" SOLUTIA SAFLEX IIIIG PVB/1/4" HT. ST.)



TYPICAL I.G. GLASS GLAZING DETAIL

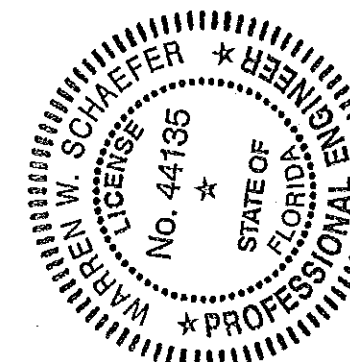
(NOT APPLICABLE TO CORNER FRAME MEMBER)

GLASS OPTIONS:

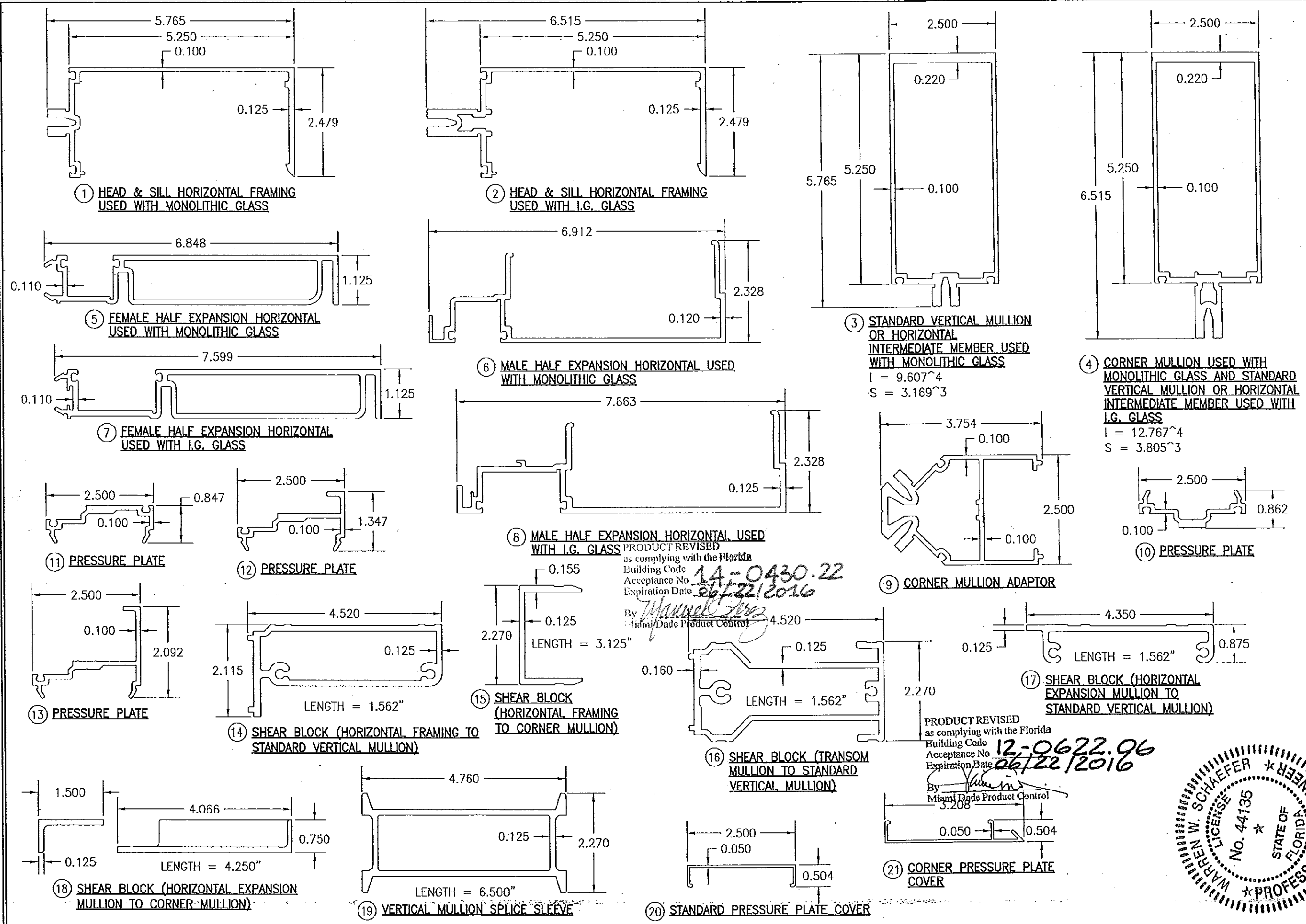
- OPTION 5: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" SOLUTIA SAFLEX IIIIG PVB/1/4" HT. ST. INTERIOR)
 OPTION 6: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST. INTERIOR)

PRODUCT REVISED
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 By *Manuel Perez*
 Miami Dade Product Control

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 By *Manuel Perez*
 Miami Dade Product Control

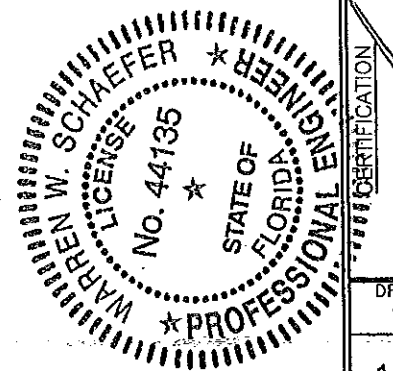


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 03/09/12	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1790 SHEET NO. 15 OF 18	

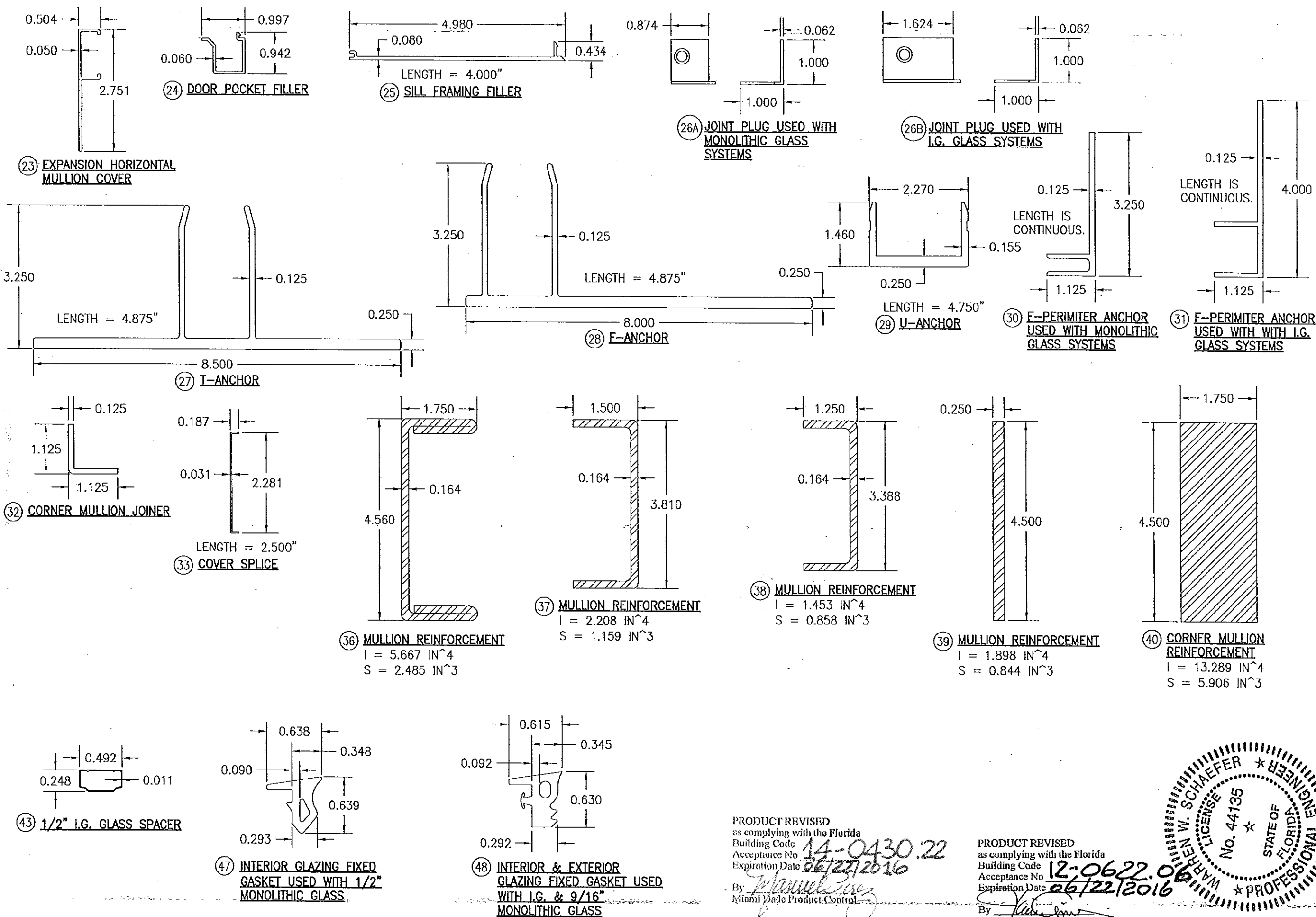


PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0430.22
 Expiration Date 06/22/2016
 By *Mannul Jery*
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0622.96
 Expiration Date 06/22/2016
 By *Warren W. Schaefer*
 Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/09/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 7 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
JUN 19 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1790		REV. 16 OF 18	



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/09/12
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REVISION DESCRIPTION	NO.
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION WARREN W. SCHAEFER P.E. NO. 44135 JUN 19 2012	DRAWING NO. 1790 REV. SHEET NO. 17 OF 18

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0430.22
Expiration Date 06/22/2016
By *Manuel Perez*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0622.06
Expiration Date 06/22/2016
By *Warren W. Schaefer*
Miami Dade Product Control

